IANCIAL TIMES Pinault Printemps US telecoms Deadly dithering Suspicious of

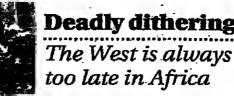
WEDNESDAY COVEMBER 6 1996

synergies Page 17

≥lection*



Big upheaval imminent



Edward Mortimer, Page 12



Eco-labelling Confusion of profusion

Technology, Page 10



a inclusory." 20104 erate section

World Business Newspaper http://www.FT.com

Bertelsmann may allow outsiders to take stakes

German media group Bertelsmann is considering a corporate restructuring which would allow some of its units to be floated. Chairman Mark Wössner said the group, pre-dominantly owned by a foundation and the family of Reinhard Mohn, was thinking about making its four main business units - book publishing, printing, magazines and newspa pers, and television and entertainment - into public companies. Page 15

New PM appointed in Pakistan Pakistan's new govern-



. .

14.2

TING

Meiraj Khalid (left) said free, fair and impartial elections" would be beld on February 3. President, Farooo Legh ari sacked Ms Bhutto's government on charges of corruption, after months of bitterness

ment was aworn in as

former prime minister

remained under what

amounted to house

arrest in Islamabad.

Interim prime minister

Benazir Bhutto

between the two leaders. Page 14; Bhutto swamped by a wave of allegations, Page 6; Editorial Comment, Page 13

Valeo stake sold for \$1.24bn: The controlling 27.4 per cent stake in Valeo held by Cerus, Carlo De Benedetti'e French holding company, was sold to three separate buyers for FFr6.33bn (\$1.24bn) valuing the French car parts maker at more than FFr23bn. Page 15; Lex. Page 14

Deal reached on Postbank sell-off: Deutsche Post, the German post office, and Postbank, the postal savings bank, reached an agreement that should enable Postbank shares to be sold to private investors, Page 3

German companies pe companies remain downbeat about prospects for growth, a survey shows. Page 3.

Change urged in EU bond rules: investment banks are pressing European central banks to relax tight regulations on government bond auctions after the inception of European monetary union, scheduled for 1999. Page 2

irprise tax bills: ild produce su

Yeltsin's heart operation hailed

as total success

By Chrystia Freeland in Moscow

Ruselan president Borie Yeltsin yesterday underwent a multipla heart bypass operation which surgeons declared "a complete success" but said had been more complicated than expected.

Mr Yeltsin recovered consciousness and opened his eyes yesterday evening following the seven-hour operation. Doc-tors expected to keep him on an artificial ventilator until at least this morning. Dr Renat Akchurin, the sur-

geon who led the 12-strong all-Russian team which performed the operation, said they had had to bypass more than the three or four arterial blockages which had been expected. He would not specify the number of bypasses performed,

saying it was "the personal affair" of the president and that he was not authorised to reveal it.

Western medical experte said it was unusual to have to bypass more than four blockages, and the multiple operation indicated severe weakness of the heart. The seriousness

By Gordon Cramt

KLM, the Dutch international airline, is to cut ground support staff, shed unprofitable routes and halt aircraft orders in a three-year programme to save FI 1bn (\$589m) .

Mr Pieter Bouw, president. said yesterday: "The drastic nature of the changes requires

of the procedure could complition of when the Russian cate the president's convalesleader will return to active polcence. Doctors also said the length of the operation, double the three or four-hour standard for a heart bypass. suggested Mr Yeltsin's ail-

ments were extensive. Before the operation, Mr Yeltsin temporarily handed ovar all his presidential authority, including control of Russia's nuclear arsenal, to Mr Victor Chernomyrdin, the Russian prime minister. Those

> Russia all smiles. _Page 2 inti Capital Marketa -----Page 24

powers will be returned to the president when ha signs a second decree. Kremlin officials did not specify when Mr Yeltsin would

take back his political mantle, but said he would decide himself when he was again fit enough to rule Russia. Before the operation, aides had said Mr Yeltsin would do so as soon as he had regained consciousne

Dr Akchurin said the results of the surgery, and an indica-

itics, would become apparent only over the next few days during the difficult post-operative period. However, dther physicians were less reserved. Dr Yevgeny Chazov, the cardiologist who prolonged former Soviet leader Leonid Brezhnev's tena-

cious grip on life in the 1970s and 1980s, said "the operation went better than expected". Dr Michael DeBakey, the US pioneer of heart bypass eurgery, who wetched the opera-tion on a monitor with three other western doctors, said it had been "a complete succe

The operation deflected much of the country's attention from a nationwide strike, called to protest against wage arrears which have left millions of workers without salaries for several months.

The action drew tens of thousands of participants in hundreds of cities across Russia, but did not have the impact which organisers had promised. In his new role as presidential stand-in, Mr

Prime minister Victor Chernomyrdin remains leader of Russia hile Boris Yeltsin recovers from beart surgery



increase operating results by F1500m within the three-year programme. This would involve "withdrawing from less profitable routes and redeploying the capacity".

He also some said some onboard service standards would

Doctors say seven hours of surgery more complicated than expected |Bayer in talks over DM20bn chemicals acquisition

By Jenny Luesby in Leverkusen, Germany

Bayer, the German chemicals and pharmaceuticals company, said yesterday it was shopping for a large acquisi-tion that could be worth as much as DM20bn (\$13.2bn). Unveiling results for the first nine months of the year. Mr Manfred Schneider, Bayer's chairman, said the group bad beld preliminary talks with Ciba of Switzerland and Monsanto of the US. Both Ciba and Monsanto

have said they plan to spin off their chemicals businessee. Bayer is interested in a direct trade purchase.

Mr Schneider said Baver would be able to take on far more debt than it had at present "if we find the big project we are looking for". Net debt stood at DM1.1bn at the end of last year

Mr Helmnt Loehr, finance director, said net debt of DM10bn would be comfortable, but the group would be willing to increase it to a maximum of DM20bn.

Mr Schneider denied Bayer was in merger talks with BASF, Its German rival, although he did say a tie-np between the life sciences operations of the two companies was "a possibility".

Bayer's expansion plans come as many chemicals and pharmacenticals gronps are separating the management and in some cases the ownership - of the two businesses. Yet Mr Schneider was emphatic that Bayer had no plans to separate its pharma-centicals and chemicals concerns. It had yet to be shown that such demergers created

shareholder value, be said. Mr Schnelder warned that the group would not now meet its goal of a 10 per cent increase in annual pre-tax profits this year. "The slug-gishness of the chemical econ-

Continued on Page 14 plans overhaul to save \$589m

ners, although some obse believe KLM should join a stronger existing grouping.

announced a 14.6 per cent dip

Services and ground support staff to be cut mentioned as possible part- ordinary equity in Northwest,

the fourth-largest US airline, but is prevented from voting with its full holding under Mr Bouw revealed the over- Northwest's anti-takeover haul as the company defences.

A shift of some services to

On the ground, he noted: "New providers of specialised services, such as in the aree of reservations, are appearing. These service providers can deliver a very sharp price/qual-

Some European companies could face unexpected tax bills as a result of European monetary union, accountants are warning, because companies will need to revalue long-term assets and liabilities denominated in foreign currencies. Page 14

Japan seeks \$3bn bankruptcy: The Japanese government agency charged with recovering debts owed to failed housing loan companies started bankruptcy proceedings for Y347bn (\$3bn) against Osaka property developer Sueno Kosan. Page 14

'Open skies' talks restart: Negotiators from the UK and the US meet in Washington today in an attempt to restart aviation talks aimed at reaching an "open skies" agreement between the two countries. Page 5; Tribunal accepts BA joint bid for Air Liberté, Page 15

Kazakhatan gets credit rating: Kazakhatan, the central Asian republic rich in oil and gas resources, was given BB- speculative grade credit ratings by two of the leading US and European rating agencies. Page 7

UK to raise spending: The UK cabinet agreed to increase public spending in real terms next year. Page 9

Argentina may soli oil company stake: The Argentine government may sell its 20 per cent stake in the country's largest oil company, YPF. Page 4

FT.com; the FT web site provides online news, comment and analysis at http://www.FT.com

I STOCK MARKET MDICES	H GOLD
New York kmchthae	New York: Comex
Dow Jones ind Av	(Dec)\$379.6 (same)
NASDAQ Composite	(Deel states on a formal
Europe and Far East	Londog:
CAC402,187.32 (+45.17)	close \$379.35 (378.95)
DAX	
FTSE 1003.921.1 (-7.0)	E DOLLAR
Nikkei20,592.33 (-40.73)	New York: lunchtime
	£
H US LUNCHTINE RATES	DM1.52055
Federal Funds	Ffr
3-mit Treas Bills: Yid .5.145%	SFr
Long Bond , and in 19232	Y
Yield	A second s
	London:
	2
	Fr
UK: 10 yr Gilt987 (103.75) France: 10 yr OAT104.44 (103.75)	Y114.05 (113.79)
Germany: 10 yr Bund 102.23 (101.54)	T (1979)
Germany: 10 yr Bund102.23 (101.54) Japan: 10 yr JGB104.1522 (104.7622)	Tokyo close: Y 113.65
Sebare In AL 200 ""Instance (Institute)	Inche Cane. I LIGANO
IL NORTH SEA OL (Argue)	E STERLING
	DM (2.492)
Brent Dated	UN
	0000
	Lts 18.00 Cather CIP13.00
Austria Sch37 Grocce. Dr400 Lut	
Bahran Dirit 300 Hong Kong Hicizo Mala	Lino.70 Singapore SS4.30

Lm0.70 Shappore 354.30 a MDh18 Slovek Rp Sk75 R 4.75 S, Ahrea R12.00 Neint125 Spain Prp250 Nid22.00 Swedon St020 OR1.75 Switz S76.70 1 Pis50 Syria S050.00 2 8.00 Tuniste Diri2.000 2 8.00 Tuniste Diri2.000 1 minorit Tarkey L220.000 Es265 UAE Dh13.00 BPr75 Hungary CE1,30 Iceland PL270 Mort PC270 Mercecos Hg280 Neth Pg75 Nigeria Shidu00 Norwey L3200 Oman Y500 Palatian J01.75 Poland Fila.760 Portugal (Ke70 India DK22 intel DK22 intel .E5.00 kely EKr26 Jepen PM8.00 Jordan FFr12.00 Kuwek Caternia Deprese Estonia Finland France German LL3500 CBHLCO Lebrator

O THE FINANCIAL TIMES LIMITED 1996 No 33,133

a less complex KLM organisation." Fleet and crew costs will have to be cut substantially, he said. This is likely to involve external sourcing - in ary bills. reservations and heavy main-

By Richard Lapper in London and David Buchan in Paris

Italian and Spanish govern-

ment bond prices yesterday

eurged on renewed expectations that the two countries

could become founder mem-

bers of European monetary

Spanish 10-year bonds now

yield about an eighth of a per-

centage point less than UK

government bonds or gilte,

while Italian bonds are only

about a sixth of a percentage point more. As recently as January, Italian 10-year bonds yielded nearly 3 percentage

Cooper, manager of Tullett

and Tokyo, a futures broker at

the London Intarnational

Financial Futures and Options

Exchange. Pointing to heavy

huying by large US hedge

funds as well as by other insti-

tutional investors, he said that

"convergence trades are right

. 6

. 5

Leeder Pape

Business & Environt.

Latiers

Observe

Arts Guide

points more than gilts. "It has been a massive con-vergence day," said Mr Alex

union.

back on".

European News

International News

Ado Pacific News

World Trade News

American News

LIK NOWS

tenance - and securing further industry alliances. We need a European partthe sale in summer of preferner," he reiterated, and hinted ence shares in Northwest Airthat KLM was pursuing a longsought tie-up. But he declined lines, the US carrier with to confirm that any talks were which KLM has had a troubled

in progress. Iberia of Spain seven-year relationship. and Italy's Alitalia have been

Italian and Spanish bonds

surge on Emu expectations

benchmark bond yields. Iomarig: basis points.

Chirac. French president, that

Spain would be ready to join

Emu in 1999, were cited by

analysts as one factor which

encouraged buying. "We have no doubt as regards Spain but

Italy has shown the same

will," Mr Chirac, said after the

Franco-Spanish summit in

Marseilles. "We hope that Italy

FISE Actuaries

LONDON · LEEDS · PARLS · FRANKFORT · STOCIOIOLIN · MANUED · NEW YORK · LOS ANGELES · TOKYO · HONG KONG

Yield spreads

in second-quarter net profits to Northwest helped KLM reduce F1258m, in spite of a 7.2 per capacity to North America by 6 per cant in the second quar-ter. With strong cargo demand cant rise in revenues to Fl 2.82bn. The downturn was blamed on higher fuel and salfrom Aela-Pecific, KLM increased by 15 per cent the number of tonne-kilometres In the half year to September, after-tax earnings rose 21.1 flown there. per cent to FI 529m - but the gain was due to proceeds from

Mr Bouw said it had been ther expansion of the European fleet within KLM. Several outstanding aircraft orders for the intercontinental fleet will

KLM owns 25 per cent of the be reconsidered." Existing

a number of investors are

expecting a report by the Euro-

pean Commission - scheduled

for publication today - to take

an optimistic view of Spain's ability to meet Maastricht

Ms Sharda Persaud, London

based European economist with Italy'e San Paolo Bank,

said many investors believed

the German authorities were

now prepared to accept a more

flexible interpretation of the Maastricht targets in exchange

for a strict post-Enu stability pact. This pact will help set the economic policy frame-

US and German bond markets

bnoyed the higher-yielding

European markets. German

manufacturing orders fell 3.6 per cent in September, com-

pared with August. This sug-

gests third-quarter growth will

be slower than in the second

quarter and inflationary pres-

hior

_25

35

30-31

ion Tec

Indian Software

work for Emu members. A strong performance by the

Emu criteria by part year.

Among the cuts, however "decided to suspend any fur-

ity ratio We shall therefore most certainly examine the opportunities for outsourcing and epin-offs of support services.

Shares in KLM added Fl 1.90, or 4.5 per cent, in Amsterdam to close et FI 43.80. Mr Bouw

be downgraded. KLM has been engaged in e fares war on its higb-volume London route with no-frills carriers such as EasyJet, with which it is in a legal dispute.

> World stocks, Page 36 Continued on Page 14



omy in Europe and growing pressure on prices have damp-ened our optimism," be said. Also, unexpected exceptional charges, principally in

is ready at the same time as sures are weak. the others." In addition, following Change in rules urged, Page 2; Comments by Mr Jacques reports in the European press, Bonds, Page 24 CONTENTS FT/SP-A Wid Indices Foreign Exchanges 25 West Street 00.30 LK 22.28 **Gold Markets** 26 Sources. 32.36 18-20 Int. Bond Service . International 24 Managed Funds ____ 27-28 Intil Cap Mitts

Money Markets -

Share Information

Recent leaves ..



Welfare reform **'offers** jobs hope'

By Andrew Bolger, Employment Correspondent in Brussels

European countries should tackle unemployment by altering their welfsre systems to encourage development of a low-wage labour market, according to Professor Fritz Sharpf, director of the Max-Planck institute in Germany

He told the fourth annual Employment Week conference in Brussels that high levels of employment in Europe were unlikely to be achieved without an expansion of the private service

"Much of that employment will have to be in areas that are not exposed to foreign competition, but the relatively low productivity of service work will allow only relatively low wages to be paid hy profit-oriented private employers," said Prof Sharpf

Given the need to rely on low-wage jobs, social justice could only be maintained if income from work could be combined with social income, he added. Prof Sharpf said this basic

concept was already a part of social policy in several European countries, alheit on a very restricted scale. In Ireland, Italy and in the UK

reform of French banking By Andrew Jack in Paris were likely to form the basis of a nsw banking law being drafted by the government. French

senior parliamentary committee The banking sector is facyesterday called for wide ing a crisis without precereform of banking in France dent," he said. in an attempt to reduce competitive distortion and increase the sector's low profitability.

In an influential report, following an inquiry lasting more than six months, the Senate finance commission has proposed modifying in the statutes of the Caisse d'Epargne savings bank. changing iabour and tax regulations, and introducing payment for basic banking services.

"There is an extraordinary misunderstanding by the public of the reality facing our banks." The report says that ownership of the Caisse d'E-pargne, frequently criticised hy lts rivals for offering ioans at unprofitably low rates, la unclear. It should

modify its statutes to clarify how it is controlled, and pay to the state the FFr62hn (\$12hn) in accumulated profits that it holds.

Its conclusions provide an The Post Office, too, should make clear the cost important new push in growing pressure for reform. Mr of providing financial ser-Alain Lambert, the commisvices which compete with sion's secretary, said they the commercial banks, says

the report.

The senators say that over the next few years tax-exempt savings products, such as the Livret A currently available through the Caisse d'Epargne and the Post Office, should be sold hy all the country's banks. They also call for changes

in the law which in practice prevents banks from going hankrupt, arguing that, as long as there is an adequate deposit protection scheme, hanks should be allowed to fail like other companies.

The report urges the government to sell off most of the banks still in public ownership, retaining only those institutions with a genuine public service mission which cannot be provided by the private sector - such as iong-term finance to small

assigned to the case, who found there was no evidence to back the accusations companies. In the view of the committee, banks should against Mr González. Stale be allowed to charge customprosecutors also argued against calling him. However, Socialist party ers for the use of cheques and be allowed to pay interest on accounts, neither of officials said they feared the which is permissible at pres affair would continue to ent. bedevil the former premier,

The 1937 regulation limitwith a series of related cases already under way. ing working hours in banks needs to be changed and a The Supreme Court declspecial tax on bank payrolls sion also exempted from tesabolished. tifying two other Socialist In an interview. Mr Lam-

bert also highlighted weaknesses in the country's system of banking supervision, arguing that the "controllers and the controlled" were often drawn from the same elite of top civil servants.

There was a need, he said, to diversify the methods of recruitment, but the report stops short of making recommendations on how to do so.

premier

resign

politicians. Mr Narcis Serra, former deputy premier, and Mr José Maria Benegas, a prominent Basque figure in the party. The accusations against Mr González were made during an investigation into a bungled 1983 kidnapping, the first action claimed by the

murky Anti-Terrorist Liberation Groups (Gal), which is also heid responsible for about 25 murders. His former interior minister. Mr Bulgarian José Barrionuevo. faces charges along with 14 others on grounds of association with an armed band, illegal detention and misuse of public funds

cles, upheld the stance taken

in April by the supreme court's examining judge

المراجع المراجع المراجع والمراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المرا المراجع المراجع

urged to Mr Ricardo Garcia Damborenea, a disaffected former local party leader in the Bilbao region. claimed to have discussed covert anti-terrorist activities on several occa-Senior figures in Bulgaria's sions with Mr González, and Mr Julián Sancristóbal, for-Socialist party yesterday called for the resignation of mer director of state secu-Mr Zhan Videnov, the prime rity, said he was convinced minister, after the party's battering in the weekend the prime minister must have been in the know. Both presidential election, AP

Yeltsin ordeal he ienses of television heart bypass enrgery. cameras and the thoughts of foreign governments were focused yesterday on the Moscow Cardlological Centre, the sprawling concrete crescent where Russia's most famous heart underwent a gruelling seven-hour hypass opera-

It is especially important for me that you know

I wish you all health and peace and good luck.

Yeltsin's letter to the Russian people published yesterday

Official Russia

all smiles after

B. Yelisio

that today.

5 November 1996

But for many of the ordinary Russians who earn meagre salaries at the hospltal President Boris Yeitsin's long-awaited surgery was a matter of little concern.

"It makes no difference to me what the outcome is." said Oleg, a 38-year-old electrician in a scruffy leather jacket as he walked down the cigarette-strewn footpath leading to the hospital. "No matter what happens, the situation won't change, he doesn't run the country anyway."

tion.

Other passers-by, includmen have been charged in the case. ing a young doctor who works at the hospital, a mid-

watched on video monitors, but were not asked to intervene or offer advice. After more than eight bours, the team's leader, Dr Renat Akchurin, emerged in bis surgical whites, looking tired but relieved to tell reporters about the stress of cntting Into the Kremlin's most powerful arteries.

"I tried to forget that it was the president of Russia and remember it was just a sick man," he said.

Mrs Naina Yeltsin, the president's wife, who berself underwent a kidney operation over the summer, seemed even more tense. In a brief television interview in the dark corridors of. the Cardiological Centre, Mrs Yeltsin said she and "the girls" - the president's two adult daughters - had not yet been permitted to see Mr Yeltsin.

Russians at a loss

"Croatia Navio I I IN

Communists general

Nomas acts to

422

C 1.

л., Ф

si -

1.2

(ny

a!;₅₅,

a....

Кс.,

195.

¥-....

there were programmes sup plementing income from work for families with small children, and the same purpose was achieved by the earned income tax credit in the US.

"From a social policy point of view the 'family income supplement' or family credit programmes are greatly superior to welfare systems that create unemployment and poverty traps because social benefits are compietely displaced by any income from work.

"From an employment perspective however, the fact these programmes are targeted to assist poor families with small children reduces their potential In countries where low-wage jobs do not at present exist in large numbers.

"In order to invest in the creation of new jobs in markets for commercial services that still need to be devel oped, private employers need to be assured that workers will generally be available at wage costs helow present levels.

"Thus any income subsidy would need to he defined with regard to the wages associated with the joh rather than to the poverty and the family status of potential employees."

THE FINANCIAL TEMES THE FINANCIAL TIMES Published by The Financial Times (Europe) GmbH. Misclangenplatz 3, 60318 Frank-furt an Man, Germany. Telephone ++49 64 156 850, Fas ++49 64 956 4481, Repre-sented an Frankfurt by J. Waher Brand, Wilhelm J. Brüssel, Colin A. Kernard as Geschiftsührer and an London by David C.M. Bell, Chairman, and Alan C. Miller. Depuy Chairman, Alarholders of the Financial Times (Europe) GrabH are: The Financial Times (Europe) GrabH are: The Financial Times (Europe) GrabH are: The Financial Times (Europe) List, London and F.T. (Germany Advertising) Ltd, London. Shareholder of the above mentioned two companies us The Financial Times Limited, Number One Southwark Bridge, London wark Bridge, Lond Number One SEI 9HL GERMANY:

GERMANY: Responsible for Advertising: Colin A. Ken-nard, Printer: Hitrayet International Ver-lagsgesellschaft mbH. Admiral-Rosendahl-Strate: 3a, 632b3 Nen Isenburg ISSN 0174 7363, Responsible Editor. Richard Lam-bert. elo The Financeal Times Limited, Number Ore Southwark Bridge, London SF 1941 SEI 9HL. FRANCE:

PRANCE: Publishing Ourector: P. Maraviglia, 42 Rue La Boèse, 7508 PARIS. Telephone (01) 5376 8254, Fax (01) 5376 8253. Printer: S.A. Nord Edan: 1521 Rue de Cutte. F. 59100 Roubast Codex 1 Edstor: Richard Lättbert. ISSN 1148-2753. Commission Pariater No 67305D. SWEDEN: Remonsible Dubles.

SWEDEN: Responsible Publisher. Hugh Carnegy 468 618 6088. Pratter: A9 Kvällstudaingen Expressen. PO Box 6007, S-550 U6, Janköping. O The Financial Times Limited 1996. Editor: Richard Lambert. O The Financial Times Limited, Number One Southwark Bridge, London SEI 9HL. R

Greenpeace activist sits atop a loading bnoy at the refinery

Environmental protests at Greek oil refinery

Greenpeace activists yesterday blocked the port facilities of the Motor Oil refinery, Greece's largest, jointly owned by Sandi Aramco and the Vardinoyannis family, Reuter reports from Athens. The environmental pressure group claims the facilities are unsafe. Its speedboats manoeuvred to stop tankers from arriving or leaving and the Greenpeace ship Arctic Sunrise docked at one of the loading berths.

tion into first place in

Sunday's parliamentary elec-

tions. Now they are looking

to it to speed the country's

transformation into a mod-

ern western-style democracy,

capable of joining Nsto and

the European Union.

"We will stop all docking to load or unload until the government promises to apply safety laws and to stop loading at night or during heavy seas," a Greenpeace spokesman said.

Aramco bought a 50 per cent stake in the Vardinoyannis family's Motor Oil Corinth Refineries and the accompanying Avinoil Industries distribution natwork in Greece for \$379m earlier this year.

reports from Sofia.

bles.

The challenge came in a letter on the front page of the party newspaper Duma, two days after voters elected opposition candidate Mr Petar Stoyanov as president. Led by Mr Alexander Lilov, a former party chief who remains influential among Bulgaria's former communists, 19 officials said Mr Videnov had forfeited his right to govern because of

the country's economic trou-Underscoring the economic crisis, government officials were in Brussels seeking aid from the European Union to ensure they could huy enough grain for the winter while the official BTA news agency said the

Fund proposed the creation of a currency board to manage Bulgaria's finances. Experts said such a board would aim to restore financial discipline.

Mr Videnov has said he would seek a vote of confidence at a party meeting next Monday. But he said there was no reason to quit unless someone had an alter-

ceremonial, hut Sunday's vote was seen as a referen-dum on the Socialist government.

A more recent accusation came from Mr Luis Roldán, former bead of the paramilitary Civil Guard police force, currently in jail facing fraud charges. He claimed to have been told by Mr Barrionuevo that the prime minister was fully behind the anti-terrorist campaign.

"The Gal case does not end here," the Communist-led United Left party said after the court announcement. The daily El Mundo, which bas played a leading role in

the allegations against Mr González, said the decision flouted the principle of equality before the law.

International Monetary

native policy. The presidency is largely

dle-aged woman struggling to qualify for treatment there, and several nurses and iah technicians, said life was proceeding as usnal inside the Cardiological Centre, although a few complained about heightened security. But in this desert of popu-

lar indifference, Russia's first family and its chosen surgeons formed an oasis of anxiety. Their ordeal hegan at

4am, when Mr Yeltsin, always an early riser, carefully combed his hair and pnt on his favourite sweater.

Then his motorcade raced from the darkness of the countryside into the city and np the wooded slope to the Cardiological Centre, surprising militiamen who said they had not been told in advance.

At 7am, after signing a few decrees, including an emotional appeal to the Russian people and an order temporarily handing presidential powers to Mr Victor Chernomyrdin, the prime minister. Mr Yeltsin submitted himself to the clamps and scalpels of a 12-person all-Russian surgical team. Four western doctors, including Dr Michael

DeBakey, the US pioneer of

Chrystia Freeland sets the scene on the day of the big operation

Beneath the nerves and exhaustion, official Russia seemed elated by the ontcome of the president's operation. A nurse in the Cardiological Centre sald the surgeons indulged in a champagne toast before facing reporters.

Kremlin officials seemed equally pleased. Mr Sergel. Yastrzhembsky, the president's press secretary. grinned broadly during an evening television interview. He took particular delight in teasing Russian news agencies for failing to

believe Kremlin press aides when they talephoned at. 7.20am yesterday with news that the president's operation had begun.

He said it had taken his own voice to convince journalists. It will take the, return of a vigorous Presi-dent Yeltsin to active politics to convince Russia's equally sceptical citizens that he really does rule the country.

González: not called

Fragile Romanian coalition bears heavy burden he votes of Romania's

Voters have invested much hope and expectation in a prospective government young people, its city lacking experience and a detailed policy, writes Virginia Marsh in Bucharest dwellers and its business class propelled the cen-tre-right Democratic Conven-

was destroyed by Nicolae Ceauşescu's highly repressive reign. It is also set to replace a government which took a hesitant and often incoherent approach to market-ied

The Convention, which finished eight percentage change, while fostering a in detail. points ahead of the former corrupt business elite, Communists, was due to neglecting welfare and refusstart talking today with Mr Petre Roman's centrist what is one of eastern Social Democratic Union Europe's largest and most (USD) on forming the coun-try's first anti-Communist ethnically diverse countries. However, the expected coalition is likely to he fragcoalition since the over-

throw of the Ceausescu regime in 1989. Social Democracy (PDSR) which may yet win the presi-It has promised to accelerate economic reform, free

private initiative and opponent. The Convention, pay rises to public sector develop the civil society that itself a coalition of some 15 workers, contributing to an centre-right, liberal and "green" groups, is led mainly by relatively inexperienced academics and former dissidents whose platform some consider to he over-optimistic and lacking The prospective govern-

ment also faces a winter of ing to decentralise power in difficult decisions on unpopular hut urgent measures to get an insufficiently restructured and overheating economy back on track. in the run-up to the elecile and the outgoing Party of tions, the PDSR granted large subsidies to agriculture, which accounts for 35 dency - will be a tough per cent of employment, and November 17.

average monthly inflation of 3 per cent, double last year's rate. The outgoing government has also kept the cur-rency, the leu, at an artificially high level, a factor behind a 10 per cent drop in exports in the first half and recent shortages of foreign

exchange The higgest immediate hurdle, however, is for the

two opposition groups to overcome their personal differences and agree on a governing alliance - although a new administration cannot be formed until after a president has been elected on

President Ion Illescu, a one-time Ceaușescu alde who is the main power behind the PDSR, will face the Convention's Mr Emil Constantinescu in a run-off which analysts say could go either way. Although the two opposi-

tion alliances campaigned on compatible platforms, many in the Convention distrust Mr Roman, a reformist for-

mer prime minister, and his party of technocrats because of their participation in the country's first post-Communist government In the violence and chaos

that followed Ceausescu's overseen Romania's rapovertbrow, Mr Roman prochement with the west. worked aloogside Mr fliescu

and the other former senior Communists who took control of Romania and went on to win the first elections hy a landslide. However, Mr Roman and the technocratic part of the cabinet differed with the president over the

pace of change and the government was toppled by anti-reform riots led hy miners loyal to Mr fliescu in September 1991.

Moscow-educated politician. has since become a greater proposent of change. Although initially shunned by western leaders, he has After the opposition won

June's local elections, and sensing the population's impatiance with rampant corruption and hesitant government, Mr lliescu instructed the PDSR to wing when selecting parlis-

mands atrong support in rural areas, where nearly half Romania's 23m populato clean up his party will heip him to a third term. He also hopes that if re-elected he can eventually persuade

Although the Conventionhad won 30 per cent in the parliament contest with 98 per cent of votes counted by last night, the PDSR will remain the largest singls party with about 22 per cent

mentary candidates.

The president, a pragmatic tha opposition to include his party in a broad coalition.

favour its more reformist The president, who comtion lives, hopes his efforts.



EUROPEAN NEWS DIGEST

French delay rail break-up

The French government has postponed parliamentary debate of its plan to split the country's rail system into separate track maintenance and operating companies. Mr Bernard Pons, transport minister, told the National Assembly that the government still aimed to create pext year a new state entity to take over responsibility for FFr125bn (\$24bn) of the SNCF rail company's debt and for maintaining and building rail track - leaving the SNCF purely as the national rail operator.

But the scheme would not be presented to parliament next week, as planned, because of "sensitivities" inside SNCF and among MPs. These had been exacerbated by the European Commission's plans to try to introduce cross-border competition in rail. Mr Pons said Brussels' moves had stirred "anxiety and doubt" among rail unions. The unions have demanded the government maintain SNCF's rail operator monopoly and guarantee the jobs of 40,000 track maintenance workers. Anxious to avoid any repeat of last autumn's rail strike, Mr Pons has decided to play for time by commissioning a further study of the new rail track company. David Buchan, Paris

German terrorist is jailed

By Frederick Studemann The DIHT surveyed 25,000 in Bonn companies, the most comprehensive poll of its kind, and The German government's said it expected growth of

hopes of brisk economic only 1 per cent this year and recovery were thrown into 1.5-2 per cent in 1997. doubt yesterday when a sur-This forecast is markedly vey of companies showed lower than those published business remains down-beat last week by Germany's six

about prospects for growth leading economic institutes. and employment. They forecast GDP growth of The pessimistic forecast 1.5 per cent in 1996 and 2.5 from the German chambers per cent in 1997 and said of industry and commerce that on current form, Ger-(DIHT) casts further doubt many would not meet the on the Bonn government's criteria for Emu. ability to meet the criteria

It must satisfy this pert for European monetary year to be among the founder members of the sin-

German business sunk in pessimism gle currency in 1999. Mr Franz Schosser, the DIHT's managing director. declined to give an opinion

The DUHT said the main

reason for its more pessimis-

Germany. Only 19 per cent of companies polled in west on whether Germany would meet the Maastricht criteria. Germany and 22 per cent of those in the east said they "I don't think ooe can say expected to increase investanything until the details of ment next year. the budget for 1997 are German business remains clear." he said.

sceptical about the strength Unemployment would conof economic recovery, the tinue to rise next year DIHT said. With consumer though at a more moderate spending still hesitant, pace, Mr Schosser said. The domestic demand remained prospect of jobless growth in flat, leaving exports as the Germany "cannot be ruled main carrier of growth.

On a geographical basis, cent. The overall decline was central and eastern Europe offered the biggest potential slightly greater in western Germany (down 3.6 per cent)

tic forecast was the poor level of investment within

than in the east (down 8.2 for export growth The survey coincides with per cent). gloomy figures released yes-

terday by the economics

ministry showing a decline

facturing industry saw a 8.6

per cent in July.

The DIHT said the construction industry was facing another meagre year. The industry had lost its in manufacturing orders. in position as the motor of September, German manurecovery in eastern Germany, where growth of 2-3 per cent is forecast this year per cent drop in orders, following slim increases of 0.1 and 1-3 per cent in 1997 per cent in August and 0.9 below that in the west for

The ministry said orders the first time since 1991. from within Germany This is a particularly wordeclined 3.2 per cent while rying signal for the Bonn those from abroad fell 4.1 per government as economic recovery in east Germany remains top of the policy agenda.

Deal reached on privatisation of Postbank

By Peter Norman in Bonn

union

Deutsche Post, the German post office, and Postbank, the postal savings bank, have reached an egreement that should enable Posthank shares to be sold to private investors during the next six months, Mr Wolfgang Bötsch, Germen post and telecommunications minister, announced yesterday. But before the accord between the two fending state-owned companies can take effect. Chancellor

Helmut Kohl's coalition govern-

cent stake in Postbank to help pay for Postbank's use of post office counters. Yesterday's announcement of the co-operation pact was meant to end six years of quarrelling between Deutsche Post and Postbank. Instead, within minutes. Postbank said it had not been told of the plan to give Deutsche Post the rights to 25 per cent of its shares.

out".

The Free Democrat party, already at odds with other coalition parties over tax policy, announced it would stick by a pre-

of Postbank in 1999 and which its balance sheet. Deutsche Post DM750m in 2001. guaranteed Postbank's indepen-insisted that this was necessary to By that time, ience should Deutsche Post take a further 10 per cent. Mr Bötsch now has the difficult

task of securing FDP backing for the new plan. He said he would open negotiations with the party this week. According to Mr Bötsch, Dentsche Post said it would sign the agreement only if it was given the rights to the Postbank shares immediately.

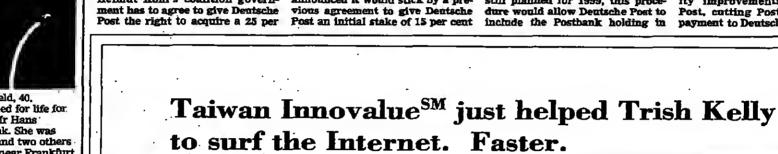
Although the actual transfer is still planned for 1999, this procedure would allow Deutsche Post to include the Posthank holding in

bridge e gap between the yearly

value of DM1.48bn (\$973m) it placed on its counter services and the figure of abont DMIhn the Postbank was prepared to pay. Under the compromise agree-ment, Postbank will pay Deutsche Post DM1.1bn for use of its counters next year. The fee will drop 8 per cent a year in the following ee years and by 13 per cent in 2001 to reflect expected productivity improvements at Dentsche Post, cutting Postbank's annuai payment to Deutsche Post to about

By that time, both companies should he in private hands and qnoted on German stock exchanges. The sale of Deutsche Post is set for 1999 after it has established it can be profitable. The transfer of a majority of Postbank shares to private ownership should happen much sooner.

Postbank has been in contact with the BHW honsing finance group, the Volkfürsorge insurance company and BHF Bank of Frankfurt, with a view to harnessing their expertise and services in return for equity stakes.



Red Army Faction terrorist Birgit Hogefeld, 40 (pictured above in court yesterday) was failed for life for murder and for attempting to assassinate Mr Hans Tietmeyer, now president of the Bundesbank. She was found guilty of the murder of a US soldier and two others in an attack on the US Rhein-Main airbase near Frankfurt in 1985, an assassination attempt against Mr Tietmeyer in 1988, and an attack on a newly built prison in 1998. She was acquitted of causing the death of a police officer in a special security forces operation at Bad Kleinen, eastern Germany, in which she was arrested in June 1993. More than 20 members of the extreme leftwing RAF have been jailed for murder and attempted murder since the now-defunct terrorist group began its campaign at the end of the 1960s. AFP. Frankfurt

7.12.

- **-**

1.

1 taria

2

Russians in diamonds probe

A Russian government investigation has revealed serious financial violations at the state diamond company Almazy Rossii-Sakha (ARS). An audit is planned of its ties to the De Beers diamond cartel. The government has given the president of the republic of Yakutia, where ARS is based, a week to remove the officials running the company. Russia's prosecutor general is also investigating the company, Mr Alexander Livshits, Russia's finance minister, said fines for ARS's violations of foreign exchange regulations alone amount to more than \$379m. in August, a government report showed Rbs3,100bn (\$570m) of debts despite reported 1995 revenues of \$1.38bn The report said ARS management diverted hundreds of billions of roubles since the company was founded in 1992 to costly and unprofitable projects. Meanwhile, dividends were never paid on the state's controlling stake in the company. ARS is state-owned, but controlled largely by local authorities in Yakutia, which strives for economic h cont 98 per cent of Russia's diamond production, is one of the country's largest export earners. AP, Moscou



Croatia says UN can stay

Croatia yesterday said it would extend the UN mandate to eastern Slavonia for six months, abandoning its demand for the peacekceping force to withdraw by spring. Croatia's foreign minister. Mr Mate Granic, said he expected the UN Security Council this week to pass a resolution extending the UN mandate until mid-July. He said an additional monitoring mission would be deployed after July for six months while Croatia took control of the region, the last Serb-held area in the country.

Eastern Slavonia is home to 150,000 Serbs. The Croatian army seized two other Serb-held regions - part of a rebel state - in 1995, causing 180,000 Serbs to flee Croatia. The UN is anxious to prevent another flood of refugees when Croatia takes control of the region. Laura Silber, Belgrad

Communists go on trial

Lithuania's former communist leaders went on trial yesterday for their part in the crackdown by Soviet troops in Vilnius in January 1991, when 13 people were killed. Mr Mykolas Burokevicius, the former Communist party chief and Mr Juozas Jermalavicius, the former party ideologist, are accused of murder and attempting a coup. Mr Burokevicius, 71, who fled to Russia after Lithuania gained its independence, has denied any responsibility for the crackdown, saying local Communist party leaders had AP. Vibria no control over Soviet troops.

ECONOMIC WATCH

Norway acts to restrain krone

Norices Interior room (26) 7.0 W	Norway's central bank yesterday cut its key overnight lending rate b 0.5 per cent to 6 per cen the first cut since March in a bid to hold down th
Overnight landing rate	value of the Norwegian krone. High oil prices at
eu	the strength of the publ finances, which are in
5.5 Overnight deposit rate	heavy surplus thanks to
^{so} N	North Sea petroleum revenues, have led to
4.5	upward pressure on the krone. Mr Kjell Storvik, central bank governor,
1003 94 95 99	significant purchases of foreign currency by the
bank recently had not restrain	id the currency

ned the currency sufficiently. The rate cut had been taken reluctantly as the bank was concerned about the danger of overheating in the economy. It said the cut made more important the need for a tough fiscal policy by the minority Labour government. It stressed the 1997 budget should not be altered to allow greater public spending as many Hugh Carnegy, Stockholm opposition groups demand. Belgian unemployment fell to 13.6 per cent in October compared with 14.2 per cent in September. The Belgium-Luxembourg Economic Union posted a trade surplus of BFr18.5bn (\$593m) in August, up from BFr4.4bn a year earlier. Denmark had a current account surplus of DKr2.0bn

(\$345m) in August against a revised surplus of DKr767m in July.

As a computer designer, Trish Kelly journeys to dozens of locations to create backgrounds f her movie posters. But not by airline. By Internet.

Now she can cross oceans faster. KYE, a leading specialist in computer peripherals in Taiwan, has invented the EasyScroll mouse. Its unique side button and top roller eliminate about 30% of clicking operations.

In this PC Capital of the World, EasyScroll is just one more example of Innovalue: innovation in design and manufacturing that gives added value to leading edge products. You'll find Innovalue in scanners, PCs, even outdoor kitchens.

Many Taiwan Symbol of Excellence winners offer Innovalue. In most product areas. If you are interested, reach us by fax or the Internet. Today, it's ideas, products, and especially values that are VERY WELL MADE IN TAIWAN.



Selected Taiwan oroducts carry this Symbol of Excellence. It is awarded by a panel of judges only to those products which excel in quality and innovation.

TAIWAN. Your Source for Innovalue-

WWW: http://innovalue.cetra.org.tw Our Fax Number: 886-2-723-5497 E-mail: mitnews@cetra.org.tw

The EasyScroll mouse from KYE is seen with Plustek's PageReader, another Gold Award Winner with one of the smallest footprints in desk scanners.

yesterday cut its key overnight lending rate by 0.5 per cent to 6 per cent -the first cut since March in a bid to hold down the value of the Norwegian krone. High oil prices and the strength of the public finances, which are in heavy surplus thanks to North Sea petroleum revenues, have led to upward pressure on the krone. Mr Kjell Storvik; central bank governor, said significant purchases of foreign currency by the

NEWS: THE AMERICAS

•

US ELECTION 1996: the ecstasy and the agony



POLLS APART (from left): Children arge voters to turn ont, while Bill Clinton kisses his daughter Chelsea after the final rally. His exhausted Republican challenger, Bob Dole, is cheered on by a supporter in a mask depicting Hillary Clinton

High cholesterol and the hot property from Little Rock

"Ha always eat cheeseburgers. He's just a burger lover."

America's fat-free elites may scoff at Bill Clinton's famously unhealthy eating habits. But at Doe's Eat Place, his favourite greasy spoon back hnme in Little Rock, Arkansa his appetite is cause for celebration. "Ha got a good appetite, a *real* good appetite," says Mrs Lucille Rubinson, nodding her head with quiet satisfaction.

She ought to know: since 1976, Mrs Rubinson has been cooking cheeseburgers for the man who

made Arkansas famous for something other than hillbillies. Yesterday she was back in the sweaty kitchen of Doe's, surrounded by giant sacks of raw french fries and huge tubes of hamburger meat, as a young man clad in bloody white apron used an oversized ice cream scoop to prepare hamburger patties for the state's most famous son. The food was for what Mrs Rubinson insisted would be the

Clintun victory party, Flashing a front tooth framed in solid gnid, Mrs Robinson scoffed at the notion there

might be no victory to celebrate. Mrs Robinson admitted she was nnt quite sure whether Mr Clinton would attend; but she had sent the invitation to the White House herself. Doa's staff were expecting the secret service to arrive at any moment, to stalk between red vinyl chairs upturned nn red-checked tablecloths, and bring dogs to sniff the scuffed and scarred black-and-white linnleum of the nidest restaurant in Little Rock. As tha screen door banged incessantly with men passing back

and forth with supplies, Mr George Eldridge, Doe's owner, reminisced nver the days when Governor

Clinton ate at the diner almost daily. Mr Eldridge says he has nnly seen Mr Clinton six or seven times since he was elected in 1992, but his eating habits have not changed.

"Ha usually has a few hot tamales and than maybe a steak," Mr Eldridge says. Mrs Robinson points nut that this is the Clinton dinner

menu - for lunch, it is always a cheesburger. "And he likes to browse in the french fry dish," Mr

Eldridge confides, adding that the First Lady, Mrs Hillary Clinton, also has a weakness for hot tamales.

ىلى ئەلەتلەتلىكى بىر بىر يې<u>تى بىر تەر</u>كىلىكى يېزى ي

The walls are papered with pictures of a younger, slimmer Bill Clinton eating just such foods in the private, panelled back ronm at Doe's, reserved for his use. Mr Eldridge Is not shy to admit that the president's patronage has made that ronm a hot property in Little Rock: it is often rented nut by companies and rich Arkansans for entertaining. Maanwhile, it was almost time to

turn on the neon Budweiser sign in

the window and open for lunch. A few hundred yards away, at the train station, Mr Clinton was just about to enter the polling station to vote for himself - and do what he could to ensure the correct result for Mrs Robinson's victory party, She would have hamburgers and hot tamales ready for him either way - and gumbo and chill and steaks and fries. His appetite was her pride and joy. Nnt fnr her, a fat-free president. Vietna

Patti Waldmeir

year-on-year increase in the

against 8.8 per cent in the

same period last year. The

confident it will meet its

inflation target of 6.5 per

size of the budget, due to be approved hy Congress

by the end of the month, in

awaiting the results of current public sector wag negotiations and the final

cent for 1996. However, it is

consumer price index

Central Bank is now

0

à



The Argentine government may sell its 20 per cent stake in the country's largest oil company, YPF, next year e they

Argentina continues to have nearly 2 percentage points one of the world's lowest because of big increases in inflation rates, despite a 0.5 the cost of fuel and transand offer a deal to workers per cent rise in October's port that wera part of a last year. recent budget-balancing aus-terity package. Cheaper food that will allow the sale of retail price index, the bighthly loan

a deflationary trend that evidence suggesting that began when Argentina slipped into a deep recession

Depressed prices and since 1994.

He said there was strong prices in Argentina were By Pascal Fletcher in flexible, which had allowed a Havana real depreciation of the pes

Cuba bas asked several de partners to



Britisb Petroleum has asked the legal authorities in Colombia to investigate allegations that the company is collaborating with Colombian military intelligence to suppress dissent in oil-producing areas.

Mr John Browne, BP's chief executive, said yesterday the allegations were "groundless and witbout substance". He disclosed the company had written to Colombia's prosecutor general in Bogota last week, asking him to vestigate each allegation to prove them true of

BP, one of the largest foreign investors in Colombia, is

bold, Mr Roque Fernández, the economy minister, said yesterday.

Mr Fernández said the government was studying the issue of a bond convertible into YPF shares at a premium to the prevailing market price. YPF has a current market value of more than \$8hn.

He said YPF workers were saving by instalments to pay for their shares and might be tempted by a government next year, \$2.7bn of which offer which would mean were beld by residents. Flows to local pension funds they would not have to complete their payments.

This was one of a number of international capital raiscompanies \$1.5bn. ing options the government had for next year, he said in an interview in London.

Others included a Mexiyear. can-style swap of new debt for Brady honds issued in 1993 as part of the restructuring of its old bank debt. No decision on whelber to go ahead had yet been taken.

and weak demand largely Deceraber 1994. The rise brings 12-month retail inflaabsorbed such pressures. Analysts said that, if the tion to 0.4 per cent, David Pilling reports from Buenos effects of the austerity package were excluded, prices Aires

Economists bad expected October's index to rise by

Mr Fernández said some from the international mar-\$8.7bn of public debt was ket, \$3.2bn from domestic due to mature next year, sources, \$1.1hn from privatisations and other capital revsimilar to this year's level. This included some \$5.7bn of enue and \$1.3bn from multibonda that would mature

The 1997 fiscal deficit of 0.9 per cent of GDP compares with 2 per cent of GDP this would total \$2.5bn and to year, be said. The International Monetary Fund last mutual funds and insurance week granted a waiver to

ġ.

Mr Fernandez said the government would need \$14.1bn of financing next omy is continuing to emerge from a severe recession with Apart from maturing debt. growth officially forecast to

a further \$3bn would cover the fiscal deficit and \$1.5hn to 5 per cent next. the cost of social security and government reform. would remain at ahout Some \$8.5hn would be raised \$8.5hn in 1998 but rise to

would have fallen 0.2 per omy is on cent in October, continuing recovering, \$10.5bn in 1999 and \$10bn in 2000. By 2000, assuming a growth of nominal gross domeatic product of an annual 7 per cent, the ratio of public debt to GDP would lateral organisations. have fallen to 25 per cent from 31 per cent last year;

and of public deht to exports, to 291 per cent from 435 per cent. Mr Fernández said Argenallow the earlier deficit tartina's convertibility law, get to be missed. The econ-

which fixes the peso to the dollar and only allows the central bank to issue money if backed by bard currency reserves, could last "for the rise from 3 per cent this year next 10 to 20 years".

"For this president and the **Public debt maturities** next at least I think it will work very nicely." he said.

US blacks hit

Argentina's competitiveness experience of 1995 following in relation to countries with Mexico's devaluation showed that the central bank could higher inflation, but may also have prolonged a recesstill act as a lender of last resort in the event of a sion from which the economy is only now slowly financial crisis.

Measures to improve the functioning of the labour market and reduce the costs of hiring would further belp, be said. Some of these measures had already been taken. The operation of the bealth insurance system had been modified to allow competition. Planned legislation to

move from a severance payment to an unemployment insurance regime could be passed hy the end of the

Labour legislation was also before Congress to put collective hargaining on wages and working conditions at a corporate rather than an industry level. This could take longer to pass

provide export credits totalling \$500m to belp offset subject like other oil companies to a "war tax" to help damage inflicted by Hurridefray the cost of military operations. It has also had to cane Lili and to ease the burden of rising food and oil import costs. The requests for bilateral

inspected the worst-hit prov-

credits on three- to five-year repayment terms followed a call by Havana for bumanitarian aid after Hurricane Lili battered the country in October. The government said crops, bousing and infrastructure were badly damaged.

Cuba sought humanitarian aid through the United Nations. But Mr Roberto Robaina, the foreign minister, requested the credits in individual meetings with the ambassadors of Canada, Britain, France, Italy and

food shortages. Congress.

provide lodging and other support to security forces protecting its facilities, as well as to workers on the pipeline linking oilfields with export outlets. But executives said there was no question of "collaborating" with the army. In the last three months there have been two attacks on BP operating sites. In one incident two policemen were killed. There have also been complaints from some local groups about the company's environ-mental. labour and welfare policies. Robert Corzine, London

Chile's inflation rate slows

τ.

Chila's inflation rate is Chile 121.2 continuing to alow, according to official figures Annual % change in CPI released vesterday, which show a 6.2 per cent

Brazil. Thay were told they would be "one-off" credits 10 largely intended to help Cuba cope with expected The governments approached are reacting cau-tiously. There is a wide-

14

spread perception among for-. 95 eign diplomats that the authorizies may bave over-stated the effects of Lili. Senior diplomats who

order to decide when to relax its credit squeeze. Unemployment figures in the three months to September, also released yesterday, showed an unexpected fall from 7 to 6.8 per cent. Imogen Mark, Santiago

Ex-officer on US spy charges A former Soviet intelligence officer is expected to appear in a Massachusetts court on charges of trying to obtain nformation on US missile defence.

Mr Vladimir Galkin, a Russian citizen who worked for the former KGB, was arrested last week on arrival at New York'a John F. Kennedy airport, a court official said. The charge atems from Mr Galkin's alleged espionage AFX, Washington activities from 1990 to 1991.

Cuba renews jets campaign

Cuba yesterday renewed its campaign to gain permission for its commercial jets to fly over US territory. At present, Cuban aircraft bringing Canadian tourists every winter are forced by US sanctions to detour over the Atlantic to Cuba, pushing up fuel bills. The Cuban government called for free commercial access to US skies in a resolution presented to the general assembly of the 21-member Latin American and Caribbean Civil Aviation Commission in Panama City. AFP. Havan

Peru drug baron arrested

The Peruvian government has announced that police: have captured the country's most wanted drug baron in neighbouring Ecuador, and have broken up his trafficking ring, which was supplying Colombia's Cali cartel. In a joint operation by Peru's intelligence service and Ecuadorean police, Mr Willer Alvarado Linares - known as "Champa" - was arrested in a Quito hotel on Sunday aftar being tracked from Bogotá. Four other alleged traffickers were also arrested. Reuter, Limo

Multinationals 'rising to energy challenge'

By Nancy Dunne in Washington

Privatisation and pent-up need for investment have created scores of new multinationals in the global energy market. luring them to invest hillions of dollars in new projects, according to a report from the US energy department released yester-

US.

With more than \$1,000bn needed in new investment over the next 10 years, the companies have risen to the challenge through acquisitions, mergers, consolidations and strategic alliances. the report says.

"Oil and gas companies have become electricity companies: domestic regional electric utilities have become multinational electricity companies; electricity distribution companies have become generation companies: and generation companies have become distribution and tranamission companies," the report notes

The most pronounced

impact of privatisation so far greatest in Asia, where developing countries which accounted for only 14 per may be the increased level of ownership of several former state-run petroleum compacent of total world electricity consumption in 1992 are nies by foreign investors particularly those from the expected to account for a third of total demand growth

As the role of the World between now and 2010. In Latin America, height-Bank and other development agencies has diminished ened environmental con-"significantly". new private cerns are strengthening demand for natural gas, parfunding sources for international investment are rapticularly in Brazil and Chile. idly emerging. These include the expected - oil producers Natural gas pipeline projects, costing nearly \$7hn. and natural gas pipeline companies – but also the are either under construction or active consideration. unexpected, such as con-The structure of the struction companies and world's coal industry, which power equipment manufacaccounts for a quarter of global energy consumption,

turing companies. Privatisation bas also bas also undergone considerresulted in a convergence of able change. Encouraged by petroleum-related activities the removal of coal subsiand electric power-related dies. European companies activities, the report notes. particularly multinational The trend stems partly from conglomerates – bave the growing use of natural gas in some regions, for its abroad in recent years. environmental advantages Privatisation and the Globaliover coal or oil, driven by sation of Energy Markets. the improved efficiency of Energy Information Adminisgas-fired electricity generatration, Room 1F-048, Forres-

tion units. tal Building, Washington, DC Growtb in demand is 20385. Tel 202 586 8800.

By Gerard Baker in Washington

Blacks remain the principal target of the continuing high level of hate crimes committed in the US, according to a report published by the Federal Bureau of Investigation yesterday.

The FBI said race was the motivation in more than 60 per cent of all auch crimes reported by the nation's police forces in 1995. Citing preliminary data, the bureau said 7,947 hate crimes were committed last year, of which 4,831 were racially motivated.

Hate crimes are defined by the FBI as those that show evidence of prejudice based on race, religion, ethnicity or sexual orientation.

The total figure rapresented a 35 per cent increase increased their presence on crimes reported in 1994. But officials stressed the numbers could not be reliably compared with the previous year since the number of forces reporting had risen substantially.

For 1995, 9,500 police agen-

by hate crimes cies in 45 states and the Dis

> non, reported statistics, compared with 7,200 from forces covering 50 per cent of tha population in 1994.

crimes, whites were the victims in 25 per cent of cases. Religious hias was the second most frequent basis of prejudice in hate crimes. with Jews by far the most common target. Of the 1,277 incidents Jews were victims in 1,058 cases.

Sexual orientation was the motivation for 1,010 crimes. or 12.8 per cent of the total. Attacks on male homosexuals accounted for 735 cases, or 72.1 per cent. Ethnicity and national origin was the fourth major category of

hate crimes. The most frequently reported offence was intimidation, responsible for 41 per cent of all cases. Destruction and vandalism of property accounted for 23 per cent of the offences, assault for 18 assault for 13 per cent.

prospects, the government quickly announced this would not prevent the economy from surpassing a 5 per cent gross domestic product

growth target for 1996. Many diplomats helieve Cuba's move was more directly motivated hy a balance of payments squeeze resulting from lower world prices for the island's main exports, sugar and nickel. and a sharply rising import bill, especially for oil.

The EU and others are providing humanitarian aid, but Havana's bid for softer credits is seen as a more sensitive issue because of outstanding Cuban debts to official creditors and US pressure on foreign trade per cent and aggravated and investment links with the island.

inces said they did not see the acale of devastation, especially to housing and trict of Columbia, covering infrastructure, reported hy 75 per cent of the US populathe authorities. Senior Cuban officials had

described Hurricane Lill as a national tragedy that would badly set back Cuba'a eco-Of the racially motivated nomic recovery bopes. But, apparently moving to dispel fears about future growth

NEWS: WORLD TRADE

UK, US restart open skies talks China to **hold 46%**

By Michael Skapinker, Aerospace Correspondent

Government negotiators from the UK and the US meet in Washington today.in an attempt to restart aviation talks which collapsed acrimoniously in August.

The talks, which the UK says are at the Americans' initiative, are simed at reaching a new "open skies" agreement between the two countries. The US has made the conclusion of such an agreement a precondition for approval of the proposed alliance between British Airways and American Airlines. The last time UK negotia-

tors were preparing to set out for Washington, they received a message from their US counterparts telling them not to bother coming. The cause of the breakdown was a memorandum from the British government making it clear that the UK was not prepared to sign the sort of accord the US had concluded with Germany and other European countries. In particular, the UK objected to giving US_air-

lines "beyond rights", allowing them to carry passengers from Britain to third countries. The UK argued that "beyond rights" should be granted only if UK airlines

and the second sec

were granted cabotage, the would not be productive". right to carry passengers within the US. Virgin Atlantic, the independent UK carrier, has said that it wants to set up a domestic US service. The US insisted its airlines had to be given "beyond rights" and rejected the UK's demand for cabotage. The US also rejected a UK proposal that a tribupal be set up to protect smaller carriers against predatory pricing

and anti-competitive behaviour by large airlines. The US said in August the UK's proposals "fell so far short of providing the essential elements of an open skies agreement that talks

Opinion on whether already signed deals would today's talks stand a better chance of success are mixed. A US official said his government's intention was to see whether the UK's position had shifted. "These discus-sions are intended to see

whether there's a mutual understanding on how to move forward." . He said, however, that the

wear exports.

namese shoe exports.

before taking a position.

are suspicions that come

to high EU tariffs - are slip-

ping across the border into

Vietnam and being exported

Vietnam's capacity to supply

raw and processed leather is

poor, creating opportunities

for sales, including tanning

dismisses coocerns that the

"If we can expand our raw

equimment, to Vietnam.

tion in Hanol.

under Vietnamese labels.

US was not prepared to back rier in March. The UK Office of Fair down from its insistence that the UK had to sign a Trading has submitted a report on the BA-American alliance to Mr Ian Lang, similar agreemant to thet concluded with other European countries. The US has trade and industry secretary, said that if the UK receives who is expected to make an any special favours, Euro- announcement this month.

pean countries which have of jet demand that their accords be renegotiated. This suggests that any

project compromise will have to come from the UK. BA is anxious to conclude its alli-By Tony Walker in Beijing ance with American USAn, BA's existing US partner, has said it will end its code-

Aviation Industries of China (Avic) will hold 46 per cent of a project to build a 100sharing and frequent flyer programme with the UK carseater regional jet, with its European and Singaporean

partners taking the rest. Mr Zhn Yuli, president of Avic, yesterday said Aero International Asia, which includes British Aerospace and Aérospatiale of France. would bold 39 per cent, and Singapore Technologies 15

> per cent. This is the first time a Chinese official bas mentioned specific shareboldings. The partners signed a memorandum of understanding in July, but final agreement is still pending. The official Xinhua news agency qnoted Mr Zhn as saying the AE-100 aircraft would come on the market in 2002. Aérospatiale said the project aimed to produce at least 1,000 aircraft for sale worldwide.

The European consortium beat Boeing for the right to partner Avic in the project. Korean consortinm beaded by Samsung dropped out earlier this year.

and Aérospatiale, both Airbus Industrie members. means that the other two members of the European consortium, Daimler-Benz Aerospace (Dasa) of Ger-many and Casa of Spain, would be drawn into the project. BAe and Aérospatiale are already pariners with Alenia of Italy in the Aero International Asia con-

Beijing wants Airbus involvement so that the 100seat jet is compatible with other elements of the Airbus fleet. "We want the AE-100 to share certain features with Airbus planes so as to benefit end-users," said the Chinese official.

China earlier this year ordered \$1.5bn worth of Airbus aircraft, including 30 150-seat A-320s. The deal broke Boeing's stranglehold Jeremy Grant on the China market.

WORLD TRADE NEWS DIGEST **Bangkok signs** subway deal

a an a la la la la la la la la

The Thai government yesterday signed a \$944m contract to build the initial phase of Bangkok's first subway

The consortium members, Germany's Bilfinger and Berger, Thailand's Ch Karnchang, and Tokyu Construction and Kumagai Gumi of Japan, said work would be shared equitably, but that revenue and work-sharing details had not been finalised.

Construction of stations for the project is to start early next year. A tender, worth over Bt20bn (\$784m), for the econd 11km northern phase of the line, is now open. with the same consortium widely expected to win the contract. A tender contract for a further Bt11bn concession for fittings and track for the entire length of the project is expected to be awarded within two Reuter, Bangkol years.

Italians to build Gulf mosque

A consortium of Italian companies has been awarded a L625bn (\$418m) contract by Sheikh Zaid bin Sultan, Abu Dhabi's ruler, to build the largest mosque in the Gulf. The contract, won by by Impreglio (grouping

Fita-Girola-Lodigiani) and the Udine-based Rizzani de Eccher, involves building a mosque with four minarets each 110m high and 138 cupolas. The total mosque area of 84,000 sq m will accommodate 7,000 worshippers in the main prayer area and a further 20,000 in air-conditioned, covered courtvards.

This is the second mosque to be built by this consortium, the first being in Nigeria. The contract was won against bids by Bouygues, Dragados, Dumez, ETI and Robert Graham, Rome Skanska.

Jet engine orders announced

International Aero Engines, in which Rolls-Royce of the UK is a major shareholder, has announced V2500 engine orders from China and Singapore worth up to \$430m. Rolls-Royce's share of the new deals is around \$150m.

Singapore Aircraft Leasing Enterprise ordered engines for Airbus A320s with deliveries in January 1998. China Southern announced it would buy seven more Airbus Industrie A320 aircraft following its purchase earlier this year of 10 of the V2500-powered twin-engined aircraft. The consortium, based in Hartford, Connecticut,

comprises Rolls-Royce, Pratt & Whitney of the US, MTU of Germany and Japanese Aero Engines. Foreign Staff

Bid to end Japan wood tariffs

US and Japanese forestry industry executives yesterday began two days of meetings on the deregulation of Japan's wood market.

The American Forest & Paper Association in September predicted a 20 per cent annual increase in US exports to Japan after Tokyo announced deregulatory moves. These included eliminating requirements to re-test lumber imports, permitting three-storey wood frame construction. and eliminating high tariffs on laminated timber.

The executives are hoping for an agreement to eliminate tariffs on Japanese wood and paper. "Although Japanese tariffs on paper are relatively low, the Japanese paper market remains essentially closed to US and other foreign suppliers," said Mr W. Henson Moore, head of the association. Nancy Dunne, Washington

here is barely room to move at Hunsan Co's L. shoe factory in a sub-urb of Ho Chi Minh City, let alone be heard above the whirr and clatter of machinery. Every inch of space is occupied by piles of half-finished sports shoes and boxes as the company: races to complete a \$1.2m order for 80,000 sports shoes from Miber, an Italian customer.

"If someone comes to us with a design, we can turn it around in three days," says Mr Pham Ngoc Lam, the company's US-trained finance and investment manager. Hunsan, like many Vietnamese shoe makers, has seen business boom since it was founded four years ago, much of it thanks to export orders to the European Union.

export eamer.

pairs in 1989.

undiminished.

e are so herve

12 12 12 12

a star in grinn statutie

in plea

ication

1. A. S. W. B. C. T.

- ··· · · · · · · ·

Partity

and the second second

In 1994 it sold \$1m of shoes abroad. That figure has risen to \$5m in the first eight Indonesian products. Vietmonths of this year, 80 per cent of which was to EU member states.

Long used to selling through South Korean intermediaries with the right contacts, Hunsan plans to sell directly through European distributors as a way of exporting more. These plans may be good

news for the Vietnamese authorities as they try to encourage the development of the country's weak export capacity: shoes have become the country's sixth largest



0 10 20 30 40 50 60 70

Last year saw nearly 80m But they strike fear into pairs exported, earning the the boardrooms of European country \$250m, according to footwear manufacturers. EU data.

They already face tough. The steep rise is partly due to the arrival of foreign investors, mostly South Korcompetition from competitively priced Chinese and ean, Taiwanese and Hong namese shoe exports to the Kong-based companies. EU have emerged as the lat-Hanol opened up its manuest threat, jumping to 61.5m facturing sector to foreign pairs in 1994 from 628,000 investment in 1990.

The result has been a boost in production capacity And Vietnam's emergence at previously moribund Vietas the third largest footwear exporter to the EU after namese concerns. Assembly those two countries is confirwork is effectively sub-contracted to the Vietnamese mation that the competitive threat from Asia remains partner. Foreigners and Vietnam-

ese have also been quick to In 1990, Vietnam exported 750,000 pairs of sboes exploit the low tariff regime mainly synthetic sports that applies to Vietnamese shoe exports to the EU. EU might eventually impose shows, leather shoes and "tissue tops" - worldwide. Under the Generalised Sys- tariffs and quotas on Viet-

Vietnam makes strides into tem of Preferences, Vietnam namese shoe exports. He estimates his company has a three-year window to install enjoys reduced duty on foot-Pressure is therefore likely to mount on the EU from European menufacturing

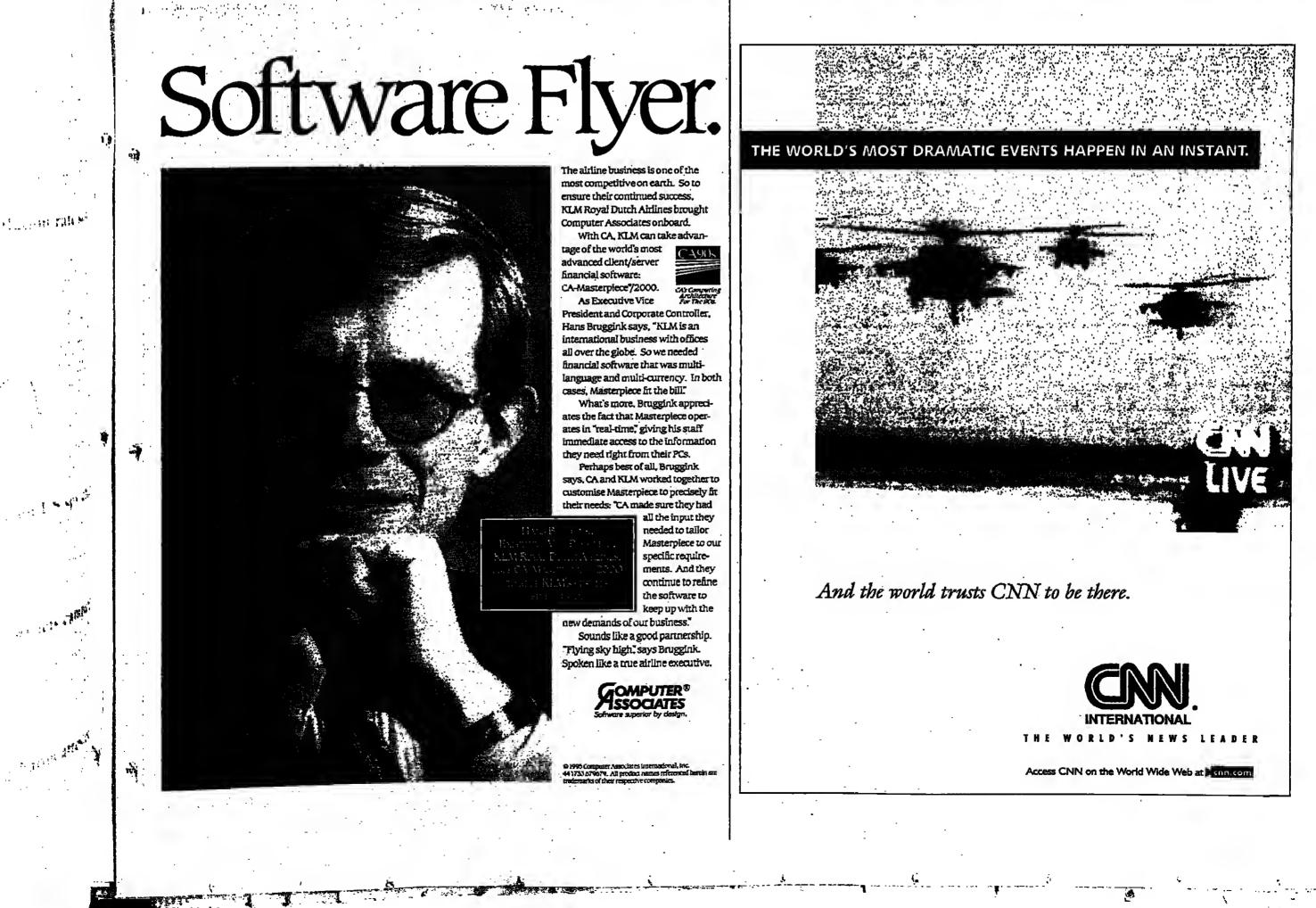
federations to find ways of stemming the flow of Viet-EU officials say they are acutely aware of the concerns but need to find oot more about the structure of finished products. Vietnamese shoe production

· Chief among their con-cerns is the origin of the raw taking whatever price they're being offered because materials used by Vietnamese manufacturers. There

e adds that seasonal finctnations in demand make reliance on erports a liability and that Hunsan, though keen to increase exports, aims for an aven split between the local and foreign markat to reduce risk. Mr Phan Dinh Do, general director of the Vietnam

poration, admits there are other problems. He says: "1996-2000 could be regarded

our own products. We are also had at marketing."



naw capacity to take further advantage of the EU market. Rowever the industry's scope for growth is limited by its reliance on raw mate rial imports. Businessmen say this imposes a strain on

the ability of companies to put competitive prices on "Some of the factories are having problems. They're

they need the business." says Mr Lam. Chinese products - subject However, officials seem to be clear about one thing: local manufacturers with

Leather and Footwear Cor-

material exports to Vietnam it's already less painful than as a banner period for Vietimporting finished prodnam's footwear industry. ncts," says Mr Riccardo But we rely too heavily on Ravenna, head of the Euroforeign companies for spare pean Commission's delegaparts, equipment and materials. We need to step up pro-Mr Thai Van Hung, Hunduction and distribution of san's president and founder,

The involvement of BAe

NEWS: ASIA-PACIFIC

Bhutto swamped by a wave of allegations

Pakistan's prime minis-ter Ms Benazir Bhutto Farhan Bokhari details the political and economic upheaval that toppled Pakistan's premier is out of a job again. dismissed on charges of cor-The rise and fall, and rise and fall of Benazir Bhutto

ruption in a repeat of ber fate six years ago.

The man who gave her and ber government their marching orders on Mondey night. President Faroog Leghari. was around the last time sbe was fired - but then he was ber close ally. Indeed, many Pakistanis remember Mr Leghari in a protest march two years later being beaten by police because of his loyalty to Ms Bhutto, by then back in opposition.

But it seems the repeated allegations of corruption and mismanagement against Ms Bhutto's new government. elected in October 1993, were too much for President Legbari. With the necessary nod from the military, be euded ber second attempt to bring about the "social revolution"

she promised her people. They appeared not to take it to heart. There was a heavy troop presence in the country's large cities, including the capital islamabad, but there were few signs yesterday of public concern at the fall of her government.

in parts of the country such as Karachi's poorest Urdu-speaking neighbourhoods, which have faced the brunt of a recent security clampdown, there were small celebrations in which people gave each other gifts of laddoo, or sweetmeat

Traffic was initially thin the investment climate will in the morning, apparently improve now that the long

first free elections after 11 years of military rule: C: 1990 August: President Ghukam Ishaq iChan sacks povernment on charges of convention and political incompetence November: Narwaz Sharif wins election but is sacked in April 1993 by President Khan on charges of corruption and @ 1993 October: Bhutto forms government after PPP emerges as biggest single party in general election. Gr 1994: Sectarian warfare in Karachi, Pakistan'a oprimercial hub, brings civil administration to a hait. In 1995, 2,000 people are killed. Business confidence ainks... 3: 1996 June: IMF suspends disburgements from \$600m standby loan, kritisted at government's lacklustre budget and reluctance to introduce farm tax.

Cotober: Opposition begins street protests and strikes, demanding Bhutto's resignation. telemabed, the capital; brought to a stand mment-unusite ememonov budget, introducing farm tax

. 1988 November: Benazir Bhutto becomes onne minister in

Bhutto relinquishes finance portfolio. IMF restores standby loan mber: Government dismissed by President Faroog Leghan on charges of corruption and mismanagement.

period of uncertainty has dent to sack her. Her government almost always disended. For many Pakistanis, Ms missed corruption allega-Bhutto's downfall was tions unimaginable just months propaga propaganda. ago when President Leghari was still seen to be on ber Bhutto'a government have side (Pakistan's president is not been set out in detail yet, but are generally assumed to refer to allegaelected by members of both bouses of the federal parliament and Pakistan's four tions that Ms Bhutto's husprovincial legislatures). The

The stock market in Kara-chi was closed yesterday for army said repeatedly that it a local boliday, but share was in no mood to intervene prices jumped on the "kerb" to halt the growing civil disor informal market, and are order and political mismanagement. The opposition, expected to rise today on the official exchange. Businesses meanwhile, was divided. are generally boping that Yet Ms Bhutto did nothing

to deflect the pressures which mounted on the presi-



in Karachi as part of a clampdown last year. Pakistan's economic crisis

also played a part in the tim-ing of Ms Bhutto'a removal. baseless The charges against Ms Having failed to meet the conditions of two failed International Monetary Fund programmes since she came to office in 1993, she was forced to negotiate a band, Mr Asif Ali Zardari, whom she appointed investthird one last month after the country'a foreign ments minister, took bribes exchange reserves slipped to or kickbacks on the award of just \$750m, equivalent to only four weeks of imports. The country's dire short-

The president also accused the government of ignoring age of foreign exchange the plight of hundreds of reflects its heavy short-term Pakistanis who were alleg-edly killed hy security forces officially put at \$28bn, but

on top of that the government relies heavily on foreign currency daposits in banks. These total local some \$8bn of which around \$2bn ie footloose money, hankers sav. Pakistan thus faces a con-

tinnous nead to refinance killing gained wider maturing borrowings, a pro- approval later, when cess that became very difficult aftar revenue projections following tbe government's budget in June sbowed Pakistan would fail to meet IMF targets. The IMF suspended drawings on

a \$600m credit as a result. Bankers believe that whoever aventually emerges in power in Pakistan will have to stick to this programme or face a serious foreign debt crisis. But the IMF programme is politically controversial becausa among its Rs40bn (\$1bn) in budget measures is a plan to tax agriculture for the first time. Public protests also followed the steep increase in petrol prices that followed the 8 per cent devaluation with which the IMF programme was Isunched last month.

raj Khalid, the new prime Meanwhile, Ms Bhutto's downfall has come at a diffiminister, that free and fair elections could not be heid cult moment for her in the province of Sindh, her vital unless the election commishome base and the bastion of sion was "powerful and indesupport for the Bhutto fampendent", was widely seen ily. The killing in September as the first important angof ber estranged brother. Murtaza, by the police in gestion that politicians may face extensive probes into Karachi was followed hy their financial affairs ahead anti-government riots. Chants of "Zardari, you of the next elections. Editorial comment, Page 13

imperils are a killer" heard outside the ancestral home of Ms Apec Bhutto in the city of Larkana illustrated how serious matters had become. The harmony belief among the ruling par-ty's dissidents that Mr Zardari may have ordered the

By James Kynge In Kuala Lumpur Ghinwa, Murtaza's widow

Maleysian human rights formally made that allegagroups, defying government tion before a Karachi judge. pressure, announced yester-It is by no means certain day that they will go ahead Ms Bhutto will be permitted with a controversial conferto return to politics. Tha posence on East Timor which sibility of criminal charges officials say could strain ties against her husband and with Indonesia. The conference, which investigations into her own

Rights

meeting

financial dealings were yes-terday not being ruled out may attract more than 200 representatives mainly from hy members of Pakistan's regional non-governmental new interim administration. organisations, has placed The opposition Pakistan Malaysia in a delicate diplo-Muslim League (PML) welmatic predicament. Altbough it is unofficial, comed Ms Bbutto's downfall and says it is confident of Malaysian officials are wor winning the next elections. ried that the meeting may However, its leader, Mr Nawaz Sharif, was also tainted with charges of coroffend its large neighbour to the south,

- 11

The meeting from November 9 to 11 is expected to highlight alleged human rights abuses in East Timor just a week before the Asia Pacific Economic Cooperation (Apec) forum is to be beld in the Philippines.

Apec. e grouping of Asian and Pacific rim countries including the US, had its 1994 meeting in Indonesia overshadowed by East Timorese demonstrations, and activists have said that they plan more protests at this year's Apec meeting.

This year the question of East Timor, a former Portuguese colony annexed by Indonesia in 1976, is particularly sensitive after Mr Jose Ramos-Horta, a campaigner for East Timorese independence, won the Nobel Peace Prize along with a fellow activist last month.

Mr Ramos-Horta, who is reviled by Indonesian authorities, was invited to attend the Malayslan conference but he said in a statement yesterday that he had decided to stay away to "avoid putting Malaysia in a difficult position with the Indonesian government".

He added thet he admired Dr Mahathir Mohamad, Maleysla's prime minister, whom he boped could play a poeitive role in resolving conflicts in East Timor.

Malaysia regards the question of East Timor, which the United Nations continues to recognise as a terri-

Indoneaia's internal

tory administered by Lisbon.

Nevertheless, the non-gov-

ernmental organisations pre-

paring to stage the confer-

ence, which is called the

Second Asla Pacific Confer-

ence on East Timor,

appealed to Kuala Lumpur

to become involved in find-

ing a peaceful solution to the

conflict in the territory.

as

affair.

The army exercises the power, but shuns the reins

as

government contracts.

By Farhan Bokhari

Pakistan's army remained silent yesterday, but the presence of troops outside the prime minister's residence spoke volumes.

The soldiers did what they have become so accustomed to over a difficult decade of transition to democracy, Tired and frustrated with Ms Benazir Bhutto's incompetence, the generals encouraged President Farooq Leghari to dismiss his long-time friend.

The army is indisputably the force behind President Leghari. allowing bim to be assertive to front of Ms Bhutto. it is also the real power in Pakistani politics. It has watched with irritation and some distaste the efforts of radio and television stations, air-

civilian politicians to govern. Ceneral Jahanghir Karamath, a

as fearful motorists stayed

off the roads to judge public

reaction, but life returned to

normal by the afternoon.

The only deviation from nor-

mal life was the late delivery

of newspapers, which had to

delay their editions for up to

four hours to carry the full

text of the presidential order

dismissing the government

respected career-soldier wbo became chief of the army staff in 1995, has privately expressed his displeasure to president and prime minister. The excesses of the civilian rulers made him at one with the president. That made yesterday's move easy.

Senior officials predictably sought to play down the mili-tary's role yesterday. Though the president enjoys a constitutional prerogative to dismiss e government, there was a sense of a "milltary coop" in Islamahad. Besides Ms Bhntto's residence, soldiers kept close vigil et other important instellations such as

ports and government offices. Dissatisfaction has run deep among both the generals and the ruled. In recent weeks massed demonstrations, from the husiness classes to mullahs, took to the streets to demand Ms Bbutto's removal. Before dawn yesterday the soldiers moved in. "This move, althoogh constitutional, could not have occurred without the tacit approval of tha army," said Ms Nasim Zehra, a

leading security analyst. Officials say the soldiers will be withdrawn within days, once the new government settles in. Army officers were careful yesterday to avoid gestures suggesting a more enduring and open assumption of the levers of government.

tan for more than half its exis-tence as an independent state, most recently for the 11 years to August 1988 under the leadership of General Zia ul-Haq. His death in an air crash paved the way for the transition to democracy.

The soldiers are a pampered class. Defence spending amounts to 26 per cent of this year's hndget. That largesse continues in spite of suggestions by foreign donors that Pakistan should reduce its "non-developmental" expenditure, a eupbemism for defence spending. Pakistan has resisted defence cats, arguing its national security was under threat from its arch rival, India. The economic pressures on

The army has governed Pakis- defence have also mounted with a is very visible in this change. It 1990 US decision to cut all military and economic aid to Pakistan over allegations that the country was producing nuclear weapons. Pakistan raceived roughly \$70n in US aid from 1980 to 1990.

Pakistan'e economic woes alone are sufficient to force the generals to avoid contemplating a direct takeover of the country, as this would frighten away foreign investors. "Pakistan could find itself as isolated as Burma if that was ever to happen." said a westera diplomat. "The army is an important institution but it's one which recognises its limitations." Yesterday, it brushed aside any perceived limitations. "The army

suggeats that they are fully behind the president," Ms Asma Jebanghir, a leading hnman rights lawyer, said.

ruption before his govern-

A statement from Mr Mai-

ment fell in 1993.

In recent years, the army has been keen to seek a larger role in UN peacekeeping operations worldwide in a gesture to raise the country's global profile while also allowing Pakistani troops to work with troops from other countries.

It has also been rewarded recently for staying on the sidelipes. The 1990 sanctions on Pakistan imposed by the US were eased for the first time this year when Washington agreed to allow the delivery of some of the \$1.4bn worth of blocked equipment.

'encouraged' by China nuclear arms sales stance TTO 6

By Sophie Roell in Beijing

The US bas béén "encouraged" by China's apparent willingness to exercise stricter control over pos-sible export of nuclear technology to facilities not covered by international safecuards acreements.

No.

ndon

elazter.

Super-low Freedom of Europe fares

Daily non-stop from 21st November

£49

Daily scheduled flights from London Luton

and a quality of service that's reassuringly high

debonair 20

Call Debonair on 0500 146 200

Flexible tickets

Fares shown are one way, plus tax. Subject to availability.

E41

she hoped the Chinese would live up to commitments to prevent sales of technology to "unsafeguarded" facilitles. "I am encouraged by the steps the Chinese are taking." she told reporters. This week's discussions

1

£51

security issues, said efter

two deys of talks in Beijing

Ms Lynn Davis. US underwere a follow-up to a May commitment from Betjing to secretary of state for arms pany. control and international stop unauthorised transfers

of nuclear technology. The US had accused Chine of selling ring magnets to Pakistan for the nuclear industry. Beijing denied the accusations at the time. Ms Davis said she accepted prehensive and rigorous system so these commitments that China's leadership had can be carried out".

ASIA-PACIFIC NEWS DIGEST

the forecast.

no knowledge of the sale, which the US believed was Ms Davis also said the May agreement had laid an "important foundation" for made by a state-owned com-Washington is the eventual implementation demanding Beijing come up of a 1985 Sino-US peaceful

Slower growth

hits Singapore

rate in a decade. Following the announcement the

Singapore's economy grew by 3.2 per cent year-on-year in the third quarter of 1996, the city state's worst growth

with specific measures such nuclear co-operation accord as export controls or licenwhich would allow US comsing procedures to stop such panies to sell China nuclear transactions. The US, she power generation equipsaid, was looking for a "comment

Congress has delayed acceptance because of continuing concerns about China's assistance to countries such as Pakistan which are eccused of trying to develop nuclear weapons. Ms Davis also urged China

to join e group of 33 nations in halting sales of conventional weapons to Iran. "We are particularly interested in preventing proliferation of weapons to Iran and other rogue states." Ms Davis

The US sought to reassure China that its arms sales to Taiwan were consistent with its "one-China policy". Beijing opposes such sales. relations".

Ms Davis's talks, which were aimed at paving the way for a visit to Beijing later this month by Mr Warren Christopber, the eecretary of state, are part of efforts to establish a regular dialogue with China on security issues. Ms Davis said that regularising the global security dialogue was an "important step in bilateral

"Malaysia has strived for peaceful resolutions of the long-running conflicts in Palestine, South Africa, Cambodia. Bosnia and (the Philippine island of Mindanao. We should take a similar stand to support a speedy and peaceful solution to the East Timor situation." Mr Sanusi Osman, a representative for the conference

organisers said. But far from getting involved, Malaysie appears keen to divorce itself from the problem as emphatically as possible. Mr Megat Junid, deputy home minister, said the cahinet was concerned that the conference - if it goes ahead - would damp s

scheduled visit to Indonesia by Dr Mahathir. Some representatives of the human rights groups said they were worried that Malaysia might now try to han tha confarence. They edded that they were keeping secret the names of peowho planned to attend from abroad, in case the authorities attempted to bar them from entering the

Strike halts shipments of Thai air cargo by the New Aspiration party. led hy Gen Chavalit Yongch-

By Ted Bardacke in Bangkok

A strike by more than 1,000 air cargo handlers bas blocked shipments of nearly three-quarters of outhound cargo from Bangkok's Don Muang airport and forced into the open a controversial government decision to privatise the cargo services of atate-owned Thai Airways

The workers, employees of the Cargo and Mail Depart-

an open tender proces But without calling hids, remained locked in storage areas. Thai Airways was not the lame-duck government of Mr Banharn Silpa-archa decided to lower Thai Airways' stake to 35 per cent, with an additional 5 per cent for Thai Airways employees. A controlling stake was ewarded to a group led hy a private company, Commer-

cial Transport International (26 per cent) and Thai Millitary Bank (24 per cent). A main ebareholder of Commercial Transport International, Mr Anusak Indarapuvasak, is also director general of the state-owned shareholder but be deprived

sbipping company. That Maritime Navigation, an majority control. The workers fear they will lose beneorganisation which bee a monopoly on military transfits and evectually he made port under the supervision redundant.

The airline said its cargo of the ministry of communidepartment would carry on normal operations after the cations and transport. That ministry is controlled

which it used to control, has been waning in recent years although it is still considered an obstacle to the professional management which now runs the airline. Analyats said awarding Chuan Leekpai in 1994, had been hailed by exporters as a way to streamline operations Thai Airwaye' cargo operations, which accounts

aiyudh, defence minister,

who has been an avid sup-

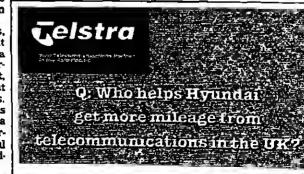
porter of commercial pro-

jects for the Thal armed

The Thai military's influ-

ence over Thai Airways,

at Don Muang airport. for 17 per cent of the company's revenue, to a group with ties to tha military was Labour peace was expected as Thai Airways was to hold a controlling 49 per cent part of the continuing struggle within the airline.



country.

A:Telstra Delivering solutions to improve performance.

Call today to find out how we can help.



government revised down its 1996 growth forecast to about 6 per cent, the second time this year it has trimmed Mr Lee Hsien Loong, deputy premier, ruled out drastic policy adjustments to cope with the downturn. "This slowdown is merely cyclical and not caused by a loss of competitiveness." he said, although indicating the government was studying the problem of industrial land being sold at inflated prices to multinational companies International. Mr Lee cautioned that slower growth was expected for a

atilair flat

"few quarters" until external demand picked up. The third-quarter downturn was blamed on a weak manufacturing sector. Singapore has been hit by a global slowdown of the electronics industry triggered by softening demand, excess capacity and an oversupply of AFP. Singapor components.

Sri Lankan regulators quit

The five directors of Sri Lanka's main foreign and local investment regulatory authority resigned yesterday. following a directive from President Chandrika Kumaratunga officials said. Mrs Kumaratunga plans to reconstitute the Board of Investment (BOI).

The government gave no reason for the action but it is believed there have been differences of opinion between two senior cabinet ministers and several BOI members. including its chairman, Mr Thilan Wilesinghe. Officials, however, said Mr Wijesinghe, a close aide of Mrs Kumaratunga, was likely to be re-appointed to the BOI Amal Jayasinghe, Colombo soon.

Support for Indian coalition

India's nine-party coalition government of Prime Minister H.D. Deve Gowda bas been boosted by the decision of its key backer, the Congress (i) party, not to withdraw support. However, the party issued a warning that the United Front should not take its support for granted. Congress, the coalition's higgest backer although not a member of the UF government, also listed several areas, including fiscal and foreign policy where it said the government was inadequate.

Congress was angered by the UF a refusal to back the party in the politically sensitive state of Uttar AFP, New Delhi

new cargo company was established and that employees would keep their jobs with the sirline. But a company spokesperson could not say what the workers' jobs would be if the new com-

pany takes over the operations of the cargo department, as expected. The decision to aeparate Thai Airways' cargo service from its pessenger operations, originally made by the former government of

ment of Thal Airways, went on strike on Monday. Most outbound cargo of Thai Airways and other regional carriers which rely on Thai Airways ground staff including Cathay Pacific Air- stake in the new company ways, Singapore Airlines, and private sector partner China Airlines, Korean Airwere to be selected through lines and Malaystan Airlines

accepting inbound cargo at airports around the world. The strike comes at a delicate time for Thai exporters, who are rushing to fill large Christmas orders of textiles and electronics at a time when the country's export

growth rate has fallen to the lowest level in a decade. Workers are protesting against a cabinet decision to give Thai Airways' cargo husiness to a new company in which Thai Airways would be tha largest single

NEWS: INTERNATIONAL

Kazakhstan Goma looters reveal facade behind regime gets its first Michela Wrong visits the east Zaire town now in the hands of rebels A s a symbol of the emptiness at the heart of President Mobutu Sese Seko's vainglo-

0 Km 40

By Kevin Done in London and Sander Thoenes In Almaty

Kazakhstan, the central Asian republic rich in oil and gas resources, was given BB- speculative grade credit ratings by two of the leading US and European rating agencies yesterday.

In receiving its first rating, the country, which is prepar-ing to make its first Eurobond issue, was put on the same level as Ruseia by Standard & Poor's of the US but assessed more cautiously by IBCA, the European agency. Russia was rated BB+ by IBCA last month, Ba2 (the equivalent of BB) by Moody'e of the US, and BB- by S&P. Credit ratings reflect perceived riek of default by a borrower. Moody's, the other leading

US rating agency, is also understood to have ass Kazakhstan recently, but it failed to release any rating yesterday. Ratings of BBB-/Baa3 and higher, which have been awarded previously to Slo-

venia, the Czech Republic, Poland, Slovakia and Hungary among the former comgrade, while ratings of BB+/ Bal and lower, so far awarded to Romania, Lithuania and Russia are speculative grade.

and the second second Patti Walka

Pr la knot

State 12" State

2. 2. 2. 2.

- Edir Rit - Et

plea for ation

stored rate slaws

the childs

a trailed

costs for the borrower. The Kazakhstan ratings disappointed some western

credit rating

economists and business executives in Almaty. The World Bank, the European Bank for Reconstruction and Development and Japan, backed the country's reforms last week by pledg-

ing nearly \$1.35bn for balance of payments, technical and investment support in 1997. IBCA said Kazakhstan's potential as an oil and gas

producer, with recerves rivalling those of Kuwait, was enormous, but being landlocked made it dependent on its neighbours for access to western markets. The planned pipeline through Russia to the Black Sea would raise oil exports

by over 50 per cent within two years. Russia was "likely to continue to exercise enormous influence" over the Kazakh economy and had recently cut off the electricity in northern and eastern Kaz-

akhstan, said IBCA. Kazakhstan, independent since December 1991, had slipped into arrears twice in servicing foreign debt in the munist countries of east past three years, and lack of Europe, are investment- a track record as an independent state was "a key constraint" on its credit rating. S&P said "a sharp tightening" of fiscal and monetary policies had allowed Kazakh-

usually means lower funding the rate of inflation.

Sanctions make

for a mixed-up

market in Iraq

Roula Khalaf penetrates the secrets of Baghdad's bourse

n the floor of the officials said the market

exchange, the main dollar is expected to rise event moving the market against the dinar as well a

dential election. Investors To prevent the market crashgathered behind a glass win- ing, the government allows

stock seems to decline when the

when it is expected to fall.

the outskirts of the eastern Zairean town of Goma, in the hands of rebel forces and end, had been pillaged.

hard to beat.

almost everything in the spparently sumptuous estate, perched on the banks of Lake Kivu, was fake. Ornate chandeliers, gilt mirrors and a brass wall clock decked with eagles and lions lay piled in the corri-

rious 30-year regime it was

The presidential villa on

dor, ready for loading. A suspiciously new Oriental rug had been rolled up and e portrait of "the Guids" himself, moulded from Zairean copper, was propped against the wall. But no one had bothered

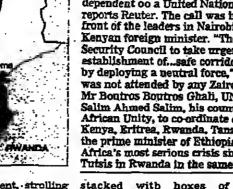
malachite.

A strong rating, implying stan to stabilise its economy reduced risks to investors, this year with a steep fall in Rwandan soldiers who routed the army at the week-But the looters found little of any real value, because

inces

to move the huge dining table, moulded from marbleimitation plastic, the four "Ming" vases. with their price labels still stuck to them, or the Romanesque plinthe inlaid with artificial

ZAIRE



A local resident, strolling through the villa decorated in what could only he guns described as "African-leader kitsch", revelled in the humiliation of the man whose recent fliness has con-tributed to the defeat of the national army, pushed out of north and south Kivu prov-

"It is good to see Mobntu finished," he said. "His power, his strength is gone." The Presidential Guard responsible for security had not, it seemed, put up much of a fight before withdrawing on Thursdey. In their quarters, roome were

African leaders yesterday called for urgent deployment of a neutral force in eastern Zaire to protect over 1m refugees dependent oo a United Nations Security Council decision, reports Reuter. The call was in a final statement read out in front of the leaders in Nairobi by Mr Kalonzo Musyoka, Kenyan foreign minister. "The summit requested the UN Security Council to take urgent measures to ensure

establishment of ... safe corridors and temporary sanctuaries by deploying a neutral force," he said. The summit, which was not attended by any Zairean representative, called on Mr Boutros Boutros Ghali, UN Secretary-General, and Mr Salim Ahmed Salim, his counterpart at the Organisation of African Unity, to co-ordinate on the move. The presidents of Kenya, Eritrea, Rwanda, Tanzania, Uganda and Zambis and the prime minister of Ethiopia attended the talks on Africa's most serious crisis since the 1994 genocide of Tutsis in Rwanda in the same "Great Lakes" region.

ordered Zaireans to adopt in unused ammunition and the 1970s - lav ready. In the first lady's suite the

choice of perfume was poi-gnant "Je Reviens". For Mr Also largely untouched was the garage, holding five black Mercedes, two ambn-Mobutu, said by his spokeslances and a Land Rover man to be about to fly to adapted to allow the 68-year-Kinshasa after more than old leader to address his restwo months of treatment in tive public. Its registration Switzerland for prostate cancer, is unlikely to return. plate: a single, huge "P", presumably for president. Goma, officially opened up Mr Mobuta only ever visfor the first time yesterday ited once but, as with every

to journalists massed at the European monarch, the villa horder, is now firmly in was kept primed for his alien hands. Nervous residents emergimminent arrival. In the upstairs suite, the cravats worn with his "abacost" the collarless jacket he

surfaced in south Kivu, that phology." an alliance of four political parties was now in control. The fighters manning checkpoints on all roads into town, far more disciplined than the Zairean troops they replaced, are a motiev crew from both north and south Kivu and as far away as the southern province of Shaba. Some are Tutsis, some indigenous Zaireans, all apparently committed to Mr Mob-

utu's downfall. But despite repeated claims by Rwanda that it is not involved, there was denying yesterday the backing behind the revolt, apparently aimed at ousting the Hutu extremists operating out of the refugee camps strung along the border.

Soldiers speaking Kinyarwanda, the national tongue of Rwanda, were openly touring town, shooting repeatedly into the air to scatter locals sifting through the abandoned shops.

Who are these men, are they Rwandans?" we asked a local resident, clearly wary of being seen talking to journalists.

ing from their shelters were informed on local radio by "Affirmative." he muttered Mr Laurent Kabila, the rebel from the corner of his

ethnic Tutsi leader who first mouth. "We know their mor-

And the victors were showing the same media savvy they have displayed since the start of the conflict. Residents said journalists had only been allowed into Gome once Rwandan Red Cross workers had cleared away more than 400 bodies from the streets.

The road to the airport, still scattered with bodies, was barricaded, as was the route to the west, making it impossible to discover the condition of 500,000 Hutu refs who are fleeing further into Zaire to escape the fighting.

The pretence of Rwandan on-involvement was almost half-hearted.

Near the border, a soldler with the aquiline features typical of a Tutsi inquired what conditions in town were like.

Told that looting was still going on, he said: "They are Zaireans, they know no better. They are starving, that is why we are being nice to them.

Then he turned away, abashed at how much the remark revealed about his own origins.

We improve our productivity by producing less.

the men and women brokers orders to sell.

yesterday was the US presi-

Baghdad

On the surface, the Baghdad stock exchange is an ordinary capital market, 18 more lively than many others in the Areb world. Opened in 1992, one year after United Nations sanctions were imposed in Iraq, the market has 98 listed companies and a capitalisation of about ID84bn. This equates to about \$47m at the current rate of 1.800 dinars to the dollar on the black market where most dollars are traded in Baghded.

Iraqi dinar Against the dollar (dinar per S)

1.000 1.500 2.000

Companies in sectors ranging from industry to tourism issue annual reports and crowds of investors flock to the exchange twice a week for a two-hour session. Many of the companies shifted to private hands during a brief privatisation drive in the late 1980s. Shares were traded unofficially for years among friends in social clubs and eventually moved on to the bourse. Stock exchange officials said investor interest had grown so much that the bourse was being moved to a larger location. But, like everything else in

quoted in dinars, does not respond to rational market forces. Investors pay little attention to revenues and earnings of companies or to economic indicators; the official Iraqi economy was devastated by sanctions and the government does not publish official statistics. Instead, the market is

lar's fluctuation against the you get is a mix-up, and the local currency. Strangely, economy here is mixed up.

up to only cent in either direction during every session. The US election should have little bearing on Iraq since sanctions, preventing Iraq from selfing its oil and from buying anything other than humanitarian goods. are not likely to be lifted in the near future regardless of who sits in the White House. The oil-for-food deal Iraq agreed with the UN last May, allowing it to sell \$2bnworth of oil every six months in exchange for food and medicine, has been put on hold since lraq's incursion into the Kurdish north in late August. The UN has said the north remains too unstable for the deal to go

through Mr Walid al Saadoun is a civil engineer who had to look for another line of work when sanctions were imposed and construction business dried up. He became one of the 46 brokers

on the exchange. "It is not a particularly fruitful business, hut at least it gives me something to do," he said. Mr al Saadoun said inves tors yesterday viewed the US election as good news, though he could not understand why. When "investors in Baghdad anticipate posi-

tive developmente, the dinar's black market value against the dollar rises. So investors sell their shares in dinars hecause they expect to be able to buy more dollars with their dinars. "People prefer to hold dollars and measure their wealth against the dollar," Mr al Saadoun said. There are other speculators, however, who try to push the market down when they expect the dollar to

rise. They sell their shares in dinars and buy dollars on Baghdad, the stock the black market in order to exchange, where stocks are resell them for more dinars at a later date. "The market fells on good and bad news," said a stock exchange official. "It only goes up when the dollar value is stable." Mr al Saadoun said the market's performance is understandable. "When sanctions force a doctor to work as a food wholesaler, a teacher becomes a taxi speculative. It offers another driver and a civil engineer way of playing the US dol- turns into a broker, what

A spatial states are preserved.

in ta

Э

â

ð

Blair takes hair advice to woo votes

By George Parker, Political Correspondent

Mr Tony Blair, leader of the main opposition Labour party, has flattened his bouf-fant hairstyle as part of a campaign to build bridges with Britain's women voters, who are less susceptible to his political charms than men

Mr Blair's hairstyle was identified by Labour focus groups as one of the more frivolous explanations for his relative unpopularity with women.

Last month, a Mori opinion poll showed that only 43 per cent of women were satisfied with his performance, compared with 60 per cent of

Senior Labour women MPs are advising Mr Blair on a strategy to recapture the female vote, fearing the gender gap has grown in recent months and could prove a serious bandicap to the party's bopes of winning the next general election.

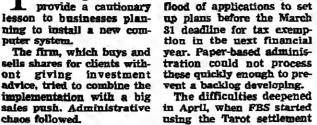
The difference in voting



Tony Blair is to visit more ine' environments

patterns between men and woman can be decisive. In some US states Mr Bill Clinton would be in trouble against Mr Bob Dole if men alone were allowed to vote, but the president typically enjoys a lead of 20 points or more among women.

The Labour leader has agreed to undertake more high-profile visits to "feminine" environments, instead of to conferences where he is include a fine. often surrounded by businessmen in suits. Tomorrow he will visit London's Great Ormond Street hospital for sick children with his wife, Cherle, a high-flying lawyer.



As a result, FBS last week and record-keeping system closed to new private client produced by computing com-business until the end of pany TCA Synergo. This is used without apparent problanuary at the request of lems by several other bro-kers, including Barclays the Securities and Futures Authority, the stockbroking regulator. Stockbroker

FBS says Tarot often ran This is a beavy blow for more slowly than was the company. FBS was tak-ing on between 100 and 200 required. It was also unable new private clients a week. Thanks to the debacle "it is to perform some basic functions. For example, accordinevitable some existing cliing to the broker, it could ents will go to a different stockbroker," Mr David Plunot issue quarterly income payments to some clients who had requested them. cinsky, FBS president, said. If FBS fails to bring cus-Tarot also sometimes failed to sweep the cash that built tomer service back to a level acceptable to the SFA by the agreed deadline, it faces disup in clients' sbare accounts when stock was sold to interest-bearing accounts or ciplinary action. This could

to pay it out as cheques. The firm's problems began when it launched a market-Meanwhile, some staff lacked the skills to extract ing campaign to promote promptly enough the inforself-select personal equity mation clients needed from plans (Peps), a tax-efficient form of investment for Tarot. According to Terence Chapman, chairman of TCA

he travails of Fidality sophisticated private inves-Brokerage Services tors. It failed to anticipate a ally very rich. You need to provide a cautionary flood of applications to set carry out effective training and re-engineer the whole business process to make best use of it." The problams, buman and

NEWS: UK

Broker's trial by computer

Fidelity still battling with disruption caused by new system

electronic, combined to reduce steeply the level of service, something on which FBS had previously prided itself as part of the US based broking company, Fldelity Brokerage Group, which in turn is part of the financial services business Fidelity Investments.

Sbare certificates went missing. Customers were left waiting for months for payments, in one case of up to £75,000 (\$122,250). Staff neglected to call customers back with information.

> 1] but 85 of the 850 A complaints that resulted bave been resolved by FBS - but it is now bracing itself for a second wave. It fears there may be

errors in the 19,000 balfyearly statements sent out to its 10.000 Pep customers at the end of last week and has set up a special 22member team solely to deal with resulting queries. Last week, Mr Sherif Nada, president of Fidelity

Brokerage Group, flew in from Boston where the company is based, to negotiate with the SFA. The resulting agreement included FBS closing to new business. The brokerage now has

and the second secon

the staff to give a good service, according to Mr Placin-sky. About 60 are fully trained to use Tarot, compared with 40 when the crisis began.

They are sorting out the problems with the belp of 25 staff seconded from Fidelity Broking Gronp in the US and 25 employees of a consultancy that Mr Pincinsky declined to name.

Mr Pincinsky said that most computer bugs which directly damaged customer service bad been fixed. Those which remained were a problam for staff rather than clients, be claimed. FBS says it will compen sate clients hit by the debacla. Those who bave lost money - for example, by missing out on interest when dividends were paid late - are expected to get cash payonts.

For those who bave been inconvenienced without losing money, charges will be waived.

Jonathan Guthrie



Mrs Virginia Bottomley, the chief national heritage minister and Mr Michael Howard, the bome secretary. yesterday mounted a campaign against what they see as unacceptable levels of violence on television and in films and videos.

Mrs Bottomley wrote yesterday to the chairmen of the BBC, the Independent Television Commission and the Broadcasting Standards Council, calling urgent meetings to see what more can be done "to ensure that television programme makers and broadcasters take full account of the standards acceptable to today's viewers".

Sir Christopher Bland, chairman of the BBC, Sir George Russell, chairman of the ITC, and Lady Howe, chairman of the BSC, have been asked to submit a report by the end of this month saying what measures they have taken to deal with government concerns on violence, and any further proposals.

The same request bas been made by the home secretary to the British Board of Film Classification on violence in films, Mr Tom Sackville, home office minister, said that significant cuts in the levels of violence in videos and on television must be made. Raymond Snoddy

OXFORD UNIVERSITY

Dons reject business school plans

Oxford dons yesterday dealt a surprise blow to the university's leadership by rejecting plans to build a £40m (\$65.3m) business school funded by Mr Wafic Said, the Saudi entrepreneur.

The university's congregation, or academic parliament, voted 259 to 214 against the siting of the school on a greenfield site at the heart of the city. The issue is now

likely to be resolved by a postal ballot of more than 3,000 academics and administrators towards the end of the month. Mr Alexander Murray, a history tutor at University Col-

lege who led the opposition in congregation, said: "I am amazed and delighted by what has happened. I am very glad the university has recovered its integrity because it was in danger of losing it."

Proposals for the business school have proved controversial with academics, university staff and local councillors since Mr Said announced his donation of £20m to Richard Wolffe build the new college in June.

SINGLE CURRENCY

Pro-Europeans warn City of risks

Pro-European MPs yesterday warned the City of London of the risks of the UK staying outside the single European currency as they launched a campaign laying out the positive case for monetary union.

The City could find the playing field decisively tilted against it," the MPs claimed in a document circulated to banks, financial institutions and industry. The pamphlet, "The other side of the coin", published by the European Movement, says there is a danger of the UK being outmanoeuvred in the negotiations over access to key part of the new financial system.

The MPs attempt to refute some of the "fanciful" allega tions made by the opponents of UK membership. The European Movement's campaign was welcomed by Lord Kingsdown, former governor of the Bank of England, the UK central bank, as a "useful and pragmatic contribution to the debate. David Wighton

MUSIC BROADCASTING

Plans to rival MTV Europe

As many as three consortia are considering plans to launch music cable and satellite television channels in the UK to rival MTV Europe, the pan-European music channel.





Only SIA offers 47 flights* every week from Europe to Singapore and over 400 connecting flights to the Far East, Australia and New Zealand. And, of course, only

Singapore Airlines provides the inflight service even other sitlines talk about, aboard one of the world's youngest, most modern fleers. For more information,

contact Singapore Airlines or your local travel agent or visit us on the Internet at http://www.singaporeair.com



Effecture from 27th October 1996

Granada, the media and leisure concern, has held exploratory discussions with four of the UK's largest record companies about proposals to introduce a specialist music channel.

Virgin, Mr Richard Branson's leisure group, bas begun negotiations with BSkyB, the satellite television venture. regarding proposals to establish a joint venture to run another music channel.

The BBC last week unveiled plans to launch a television version of Radio 1, its pop station, in a proposed joint venture with Flextech, the US-owned cable and satellite channel operator.

Established record companies approached by Granada are interested in increasing their involvement in broadcasting. The four - PolyGram of the Netherlands, the UK's EMI, Warner of the US and Japan's Sony - are already involved with Viva!, a German music channel which successfully competes against MTV Europe in that market. Raymond Snoddy

CABLE TELEVISION

Industry accuses satellite venture

The cable industry yesterday accused British Sky Broad-casting, the satellite television venture, of impeding the entry of alternative channels and programme providers into the UK pay television market.

The complaint was made in a formal response to the Office of Fair Trading's consultation on the proposed new BSkyB "rate card" which would determine the wholesale price cable operators pay for BSkyB television channels. If the cable industry cannot persuade the OFT that the proposed rate card should be modified, it plans to push for a Monopolies and Mergers Commission inquiry and will also take tha issue up with the European Commission in Brussels. Raymond Snoddy

PUBLIC TRANSPORT

Operator to buy 914 new vehicles

FirstBus, the country's biggest bus operator, is buying 914. new vehicles as part of an £80m replacement programme over the next two years. It is the privatised industry's first substantial order for custom-made buses.

The group, which this year acquired Greater Manchester bus company in the north-west and Strathclyde bus company in Scotland, has placed orders for 584 vehicles, worth £50m, for the year ending March 31 1998. All the bus bodies will be made in the UK by Alexander of Scot land, Wright of Northern Ireland and Plaxton of England The chassis will be made by manufacturers abroad, including Volvo, Scania and Mercedes. FirstBus, which commands 20 per cent of the UK bus market, said the new vehicles would be used to replace old buses in its existing fleet Motoko Rich

MANUFACTURING OUTPUT

Data suggest recovery spreading

UK manufacturing output grew modestly last month, sug-gesting that the economic recovery is now spreading from the services sector to become more firmly entrenched in industry.

Manufacturing output grew a seasonally adjusted 0.3 per cent in September, compared with a fall of 0.3 per cent in August, the Office for National Statistics said yesterday. Mr Simon Briscoe, an economist at Nikko, said the modest recovery in manufacturing output meant that there was no need for another interest rate increase. He said rates were not likely to change until after the general election, which is expected early in 1997. Graham Bowley

NEWS: UK

Spending rise Manchester chooses \$815m rebuild plan rules out big

By Richard Wolffe In Manchester

Manchester, in north-west England, yesterday launched an ambitious £500m (\$815m) four-year project to rebuild its centre, which was destroyed by an IRA bomh in June

The new city centre will feature A Millennium Centre modelled on the Pompidou complex in Paris, a pedestrian street leading to the cathedral, and a radical redesign of the Arndale centre, the city's main shopping complex.

Scheme helps

Results of US-style workfare

employment

data shine

encourage its expansion

A panel of business and political premises destroyed, including UK fund about £100m of the recon-leaders yesterday announced the retailer Marks and Spencer. winning team of architects and Most have found temporary structure projects. Ministers have The most dramatic part of the winning team of architects and

urban designers which will masteraccommodation near the Arndale centre. These including M&S, mind the reconstruction. Led by EDAW of London, the team beat 27 which plans to build its largest UK rivals to redesign 23.6 hectares of store close to the bomb site. the city centre, extending well Sir Alan Cockshaw, chairman of beyond the buildings damaged by Manchester's judging panel, said: "We want to create the very best

Mora than 200 people were city centre in the whole of Europe, injured by the 1,500kg bomb, which fit for the 21st century, and one devastated one of the UK's busiest which the people of Manchester can be very proud of." Some 670 businesses had their

The government is expected to their own huildings. They said they

The most dramatic part of the new city centre involves the demoalready diverted \$20m of European Union funds from the wider north-west region into the

£400m is expected from the private

sector. The project's leaders will

also attempt to convince five land-

lords - who control most of the

centre - to renovate or demolish

lition of the unpopular Shambles Square and the sideways move of the medieval Shambles pub, which stands on piles. But much of the finance is likely The 1960s Arndale centre is to be to come from insurance claims and

والمرابعة وأربعهم والمرابعة المرابعة فيتحدث والمحافظة ومحمد والمحموم والمحموم والمرابع والمحامية

redesigned with glazed walkways and a covered Winter Garden. Electric shuttle buses will ferry shoppers from car parks and tram stops into the heart of the new city centre.

agreed to increase public spending in real terms next year, at the price of ruling out big tax cuts in the forthcoming Budget. The prevailing view at the top level of government is that the electoral prospects of the ruling Conservative party will not be signifi-

cuts in tax

cantly enhanced hy substantial incoma tax reductions. but that a schools or health service funding crisis would be very damaging.

By Robert Peston,

The UK cabinet yesterday

Political Editor

Ministers approved acreased allocations for hospitals, schools and the police. These will not be off-set by swingeing cuts in any big spending departments.

A sanior member of the governmant said yesterday that the main spending total used in the annual expenditure negotiations - called the control total - is likely to be about £1.5bn (\$2.44bn) less than the £268.2bn pencilled in a year ago. This would represent a

cash increase of almost £7bn on the current year's planning total and is more than that needed to keep pace with the 2.25 per cent inflation rate predicted.

The outcome represents a victory for Whitehall's big spenders over Mr William Waldegrave, the Treasury'a chief minister in charge of keeping public expenditure under control. In the early autumn, ha had hoped to shave £3bn from the planned

control total. The settlement means net tax cuts are unlikely to exceed £2bn, ruling out any prospect that the 24p basic rate of income tax will be cut by more than 1p.

Among the big winners was the health department, which secured an estimated additional £600m for hospitals on top of the £34.2bn earmarked. Mrs Gillian Shephard, the

education minister, obtained

Michael Portillo: squeezed

a relatively generous settle-ment for schools, at tha expense of a squeeze on uniis set for rapid expansion folversity funding and lowing early evidence from a resources for training and enterprise councils. Mr Michgovernment pilot scheme in two different parts of Britain ael Howard, the home affairs in which recipients were obliged to work for benefit minister, was said to ha delighted by the allocation for the police and prisons. payments.

Two pilot schemes for up to 8,000 peopla - at Medway and Maidstone in Kent, in the south-east of the coun-However the Treasury won a partial victory over the defenca minister, Mr Michael Portillo, who faced try, and in Hull, in the intense pressure to cut milinorth-east - have resulted in tary support services. A cola high proportion of candileague of Mr Portillo's said dates leaving the unemployyesterday that although he ment register, although only had been forced to accept a small number are known to have jobs. Mrs Gillian Shephard, the squeeze, the stability of the armed forces would not be

chief education and employment minister, who will In social security - the biggest spender with a £90bn detail more of the expansion. budget - cash payments to plans this week, said: "The early results from the first single parents will be frozen pilots have been impressive. for a second successive year and there will be a further Project Work is having a significant effect in helping crackdown on fraud. However, more radical measures people who have been out of to trim benefit entitlements work for a very long time have been dropped because of the risk they would fail to and who really want a job. and in weeding ont those get through parliament, who don't." Under the scheme, people given the government's slim

aged between 18 and 50 who have been unemployed for Editorial comment, Page 13 | more than two years receive

roject Work, the clos- 13 weeks of intensive help in est Britain has come to US-style workfare, searching for a job, followed by 13 weeks of compulsory work experience. Those going on to work experience receive an allowance equal to thair henefit plus £10 (\$15.30) per week. Refusal to attend results in loss of state benefit.

the terrorist attack.

shopping areas.

So far, 2,481 people have been on the pilot scheme at Medway and Maidstone. To date, 20 per cent have left the register after the first 13 weeks, and a further 37 per cent have left the register at the sacond, compulsory work experience stage. Similar results have been reported from Hull.

Of the Kent clients, only 120 are known to have filled vacancies advertised in a Jobcentre (state employment office). More may have found jobs and not notified the Employment Service, but even so the figures seem at odds with Mrs Shephard's recent claim that "many have found jobs". She seemed much closer to

the mark when she said: "A noticaably high number hava simply ended their claim on referral to mandatory work experience. This suggests that the approach

is particularly effective in deterring those whose claims the pilots havs been fully evaluated, but the potential Mr Boh Keen, project man-ager at Maidstone, declined lower unemployment figures to speculate about people's has clearly proved to be reasons for leaving the regisirresistible. ter, but added: "There is a The Trades Union Con-

are not genuine."

- to another 100,000 people

there.

hit of carrot and stick. The gress has called Project Work s step down the road to workfare. The main oppoblack economy is always sition Labour party Mrs Shephard first chose to flag the expansion of Projdescribed it as a gimmick. ect Work at tha ruling Con-Labour has also criticised the lack of training and eduservative party's conference in September, even though cation on the scheme, But the pilots will ron until July. the party has said it is ready to remove henefit from It may seem rash to spend a further £70m in expanding unemployed people aged the scheme - the move is under 25 who refuse offers of a job or more education. Given Labour's determinaplanned for early next year

just about forcing people off the register. It can also provide inspiration and confi-dence, according to Mr Geoff Jones, training manager for Community Link, one of the private sector organisations which is organising the work experience element.

Ms Tilly March, 22, has not worked since leaving school. Sba is now working at an Age Concern day care centre in Maidstone, helping in the kitchen and caring for the elderly clients. She said: "I didn't like being forced into it, but it's all right once

Also st Age Concern's centre, Ms Grace Beament, 23. has been unemployed for two years, having previously worked at another old people's bome she did not like. She said: "I like it here. It is good experience and I hope it will get me a good reference."

Andrew Bolger

Enjoying their work: Tilly March (in the stripes) and Grace Beament at the old people's centre in Maidstone across the country before tion to root out benefit fraud, the opposition will also be taking careful note of rapid payback in terms of ths numbers leaving the register But Project Work is not

Lots of people have had so many rejections that they have lost the will to look for work," he said. "This gives them hope - they have just got into a rut of not applying for work."

ANT WE THE SAME

you're here."



to curb violence

t towns star and mitting the

im ans math City

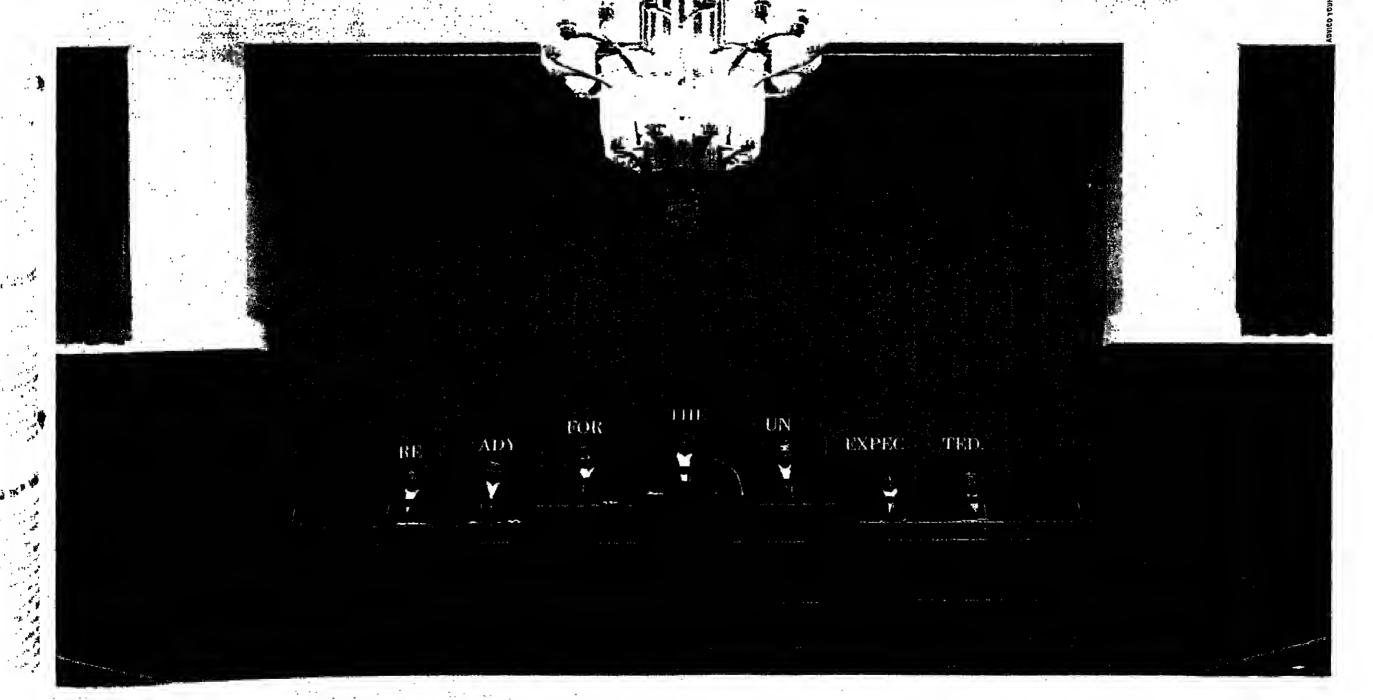
SUN PERSONAL STREET

PROVIDENTIAL AREA AREA TO A

and a second of the second of the second

undermined.

majority.



Once upon a time, a company had a clear-cut purpose and a simple set of responsibilities: produce, prosper, pay taxes. Over the years, however, corporate life has been getting tougher. A growing number of interests have to be reconciled. How can you satisfy consumers, shareholders, employees, the

environment, the community and the state all at the same time? With the threats of liability law suits multiplying, traditional insurance thinking is

not the answer. Instead, reliable methods of risk analysis and risk engineering must be systematically applied. A leading global insurer is more

likely to have the professionalism and strength to provide them to the same high standard worldwide. And the experience to show you results.



BUSINESS AND THE ENVIRONMENT

Caroline Southey on the controversy surrounding the EU's eco-labelling scheme, especially in the copying paper sector

ou can find them on products from light bulbs to loo paper. But, in the name of a good cause, there is a risk that industry is being alienated and consumers are becoming confused.

10

The root of the problem is the growth in the number of eco-labels - markings awarded by the European Union only to products which meet environmentally friendly standards.

The lahels have a dual aim: to encourage industry tu market greener products and to give consumers information about products which are environmentally less damaging.

Bui do eco-labels fulfil these two goals? The queslion is being asked more urgently following the European Commission's recent decision to press ahead with two new eco-labels - one for copy paper and the other for refrigerators.

The EU eco-lahel system is voluntary, the idea being that market forces will lead to wider use once a few companies hegin actively using them as marketing tools. "The idea is to encourage competition between companies by getting them to fit eco-labelling into their husiness strategy," says one EU official.

The criteria needed to qualify for the EU's eco- have been forthcoming.

lahels have been drawn up by the Commission for 11 products since the scheme's inception four years ago. The process has involved long consultations with industry federations, companies and environmental pres-Tintas Dyrup of Portugal. sure groups. The products include washing machines, paper kitchen rolls, laundry detergents, paints and var-nishes, bed-linen and T-shirts, copying paper, light bidbs and refrigerators. The Commission is working on with the national plans to extend the regime

or regional label rather than to footwear, stationery products, batteries and personal switch to the computers. But the EU regime has **EU-wide system** been dogged by controversy. Industry is divided over the merits of the scheme. As a due to the fact that some sectors are "very sensitive to environmental issues" while result only a small number

tool.

Bul

of companies, 11 in all, have applied for the awards in some of the product categories. For some products, such as textiles and dishwashers, no applications

The biggest take-up has that the EU is littered with been in the paint and var-various national eco-labels. nishes sector, which has such as the "white swan" in attracted 80 per cent of the Scandinavia and the "blue applications. Among them angel" in Germany, which are ICI Paints of the UK. companies have been reinctant to relinguish. The Alcro-Beckers of Sweden and take-up for the nation-EU officials believe that al labels has been high in some countries and for some products. The "white swan," the patchy response is partly for example, now appears on **Companies have**

Confusion of

profusion

opted to stay

70 per cent of some paper products in Scandinavia. Companies have opted to stay with the national or regional lahel rather than

switch to the EU-wide system because consumers have become familiar with the local logos. "In countries where eco-labelling is widely used the local labels define green products which customers can recognise. Companies don't want to give them up." says Victor Sundothers are "not yet ripe" for 1bis sort of marketing berg, environmental officer for Electrolux, the Swedish

industry's cool appliance group. response is rooted in a num-Industry analysts helieve ber of factors. The first is



Goss admits that "in prac-

productive. "There has been a proliferation of labels. It is becoming harder for industry to know which label to choose," says Simon Goss of Euratex, the EU textila federation wblcb represents 120,000 textile and clothing companies.

EU officials concur. "It is confusing for consumers. This proliferation could devalue the eco-label scheme and lead consumers not to this trend could be counter- trust labels at all," says one.

tice the EU label is a good thing. Harmonisation would help. It is impossible to sell something with 15 labels on

But, be adds, the EU schemes are unattractive to industry, another leading contributing factor to the failure of the EU labels. Criticisms of the EU scheme vary from industry to industry, hut some common points are that it is cumber-

some and costly and that the criteria for the first batcb of products were poorly defined and impractical. "The Commission was

often on a collision course with industry when it first set up the scheme. It has now realised that the system cannot work unless it has industry on its side." says Sundherg.

A prime example of poorly defined criteria was the ecolabel for dishwasbers. First introduced in late 1993, the scheme attracted no applicants, "The criteria for water consumption were too low. On the other hand, the performance criteria were too high. There was absolutely

no incentive to apply," says an official from a leading Technology manufacturer. The Commission has sub- The Business and the Envi-

sequently withdrawn the label and EU officials admit mistakes were made. "On the basis of our first experi-vcy oppears. FT IT returns to ences we are developing a the Technology page next more consistent approach to week.

make sure the criteria are practical and technically applicable." an EU official BANX says. The changes are part of a broader overbaul of the EU's

eco-labelling regime which includes streamlining the application and award process. Companies complain tbat it takes too long for applications to be processed by the national hodies which manage the scheme undar the umbrella of the European Eco-label Organisation. The Commission will also address the concern that the labels are too simplistic. "It is no good offering a simply black-and-white choice. A product might be less green because it has not got the label, but it does not mean it is not green," says Sundberg. Some sectors argue the labels should offer some differentiation by grading products. This could be modelled on the EU's compulsory lahel for encrgy consumption which grades products according to the rate at which they use energy.



Information





If you can collect every bit of data relevant to your business, you don't need us.

You could spend every waking hour chasing the information your business needs to stay ahead.

Or you could switch on your PC and get Reuters on the case. With the Reuters Business Briefing service, you get the world's most powerful business database delivered online to your desktop. So you can draw on 10 years' archived information from over 2.000 publications, on every subject under the sun.

For good measure, Reuters Business Briefing also brings

you up-to-the-minute news from over 1.900 journalists. There's financial data on 24,000 companies. Plus prices for all major currencies, and stock market indices from around the world.

To find out what Reuters Business Briefing could do for you. the next step is to visit http://www.bizinfo.reuters.com or get in touch with Reuters on 0171 542 9029.

With business information like this at your fingertips, you'll soon be feeling on top of the world.

REVIERS and the public way and sphere ways are not represented trademarks of REVIERS Limited. REVIERS is a registered trademark in more shan 25

REUTERS BUSINESS BRIEFING. If you've got it, you've got it.

Rules on rolls: EU regulations target production proces ontroversy still rages meet water effluent over the European limits. Commission's recent An additional criterion is decision to press ahead with that companies must be able an eco-label for copying to provide documentary proof that the product paper.' This particular eco-label comes from wood fibre that has provoked more passion has been grown in than any of its predecessors, environmentally-protected drawing fire from the paper forests. The Commission industry on both sides of the believes this will encourage Atlantic. sustainable forest Eco-labels for the paper sector are not new -Bnt leading paper companies have already manufacturers complain applied for the EU's kitchen that it is impossible to keep towels and toilet paper label. Fort Sterling, a modifying production techniques to meet criteria Britisb company, uses the which are revised every two EU's eco-label on three to three years. makes of kitchen towel and "We work in a toilet paper. capital-intensive industry. In Scandinavia more than The technical life of 70 per cent of some paper equipment is 10 to 20 years. products carry the local It is not possible to alter white swan" eco-label. this every few years," says Leading paper retailers say Carl-Johan Alfthan, the labels have become an technology director for integral marketing tool for a Modo Paper Husum in . majority of pulp and paper Sweden "The labels belp us to T be Confederation of market products. Most hig European Paper Industries also buyers want to know whether we carry the white

believes the criteria swan before they will buy discriminate against some producers because they favour companies which produce pulp and paper But even Scandinavian against those that buy in their pulp. In addition, the America rethinking their eco-label policies. The reason is that

the product," says one leading Swedish paper

paper producers are

the criteria for paper

process, not just the

act on the production

have only called for

modifications to the

eco-labels differ from those

they target the production

process. In all the previous

cases of eco-lahelling we

"Companies are obliged to

retailer.

product.

explains.

Forest and Paper Association believes the labels could pose a severe for all other products in that trade harrier and are pressing the US administration to refer the issue to the World Trade Organisation.

But EU officials believe that the federations are more bostile to the eco-label scheme than the companies lhey represent.

product." an EU official "The eco-labels are designed to create The criteria which competition. Federations do companies are invited to not like encouraging meet to qualify for the EU compelition between their label include cutting members. It chlorine and sulphur is not something that emissions as well as energy they can openly support." consumption during the says one EU official. manufacturing process, Paper mills must also

CS

MARTRIAN

BIRIT

ARTS

he old idea of television making seasonal programme changes three times a year, discarding whole lists

k

. . .

5. B.

Paper

artare

of series and introducing new ones, is virtually dead. Network controllers still use the arrival of hallyhoo ahout new pro-grammes, but the truth is that these days new series start every. week. My notebook for last week includes nine new serias and, using television's own estahlished practice, we shall employ a points system and consider

them in reverse order. One out of 10: Sometime, Never (ITV Sundays). A half hour comedy based upon such tired ideas that you wonder how it got beyond the planning stage. Max, a loud-monthed female teacher, is passed over for promotion in favour of a Thatcherite younger woman whose ambition is (typically contrived joke) "to close a school of her own one day". Max lives in the basement of a house owned hy her friend Bernice. Both women are stone-age feminists. Bernice cannot leava Kevin to feed their children because "Last time I did we had to have their stomachs pumped and I found sawdust". Two out of 10: Billy Connol-

eutumn as an excuse for extra .ly's World Tour of Australia brain", was fascinating: e dis-(BBC1 Mondays). The series set in Scotland, combining travelogue scenes of Connolly visiting old haunts with excerpts from his one-man shows was nearly very good. The poignancy of the childhood memories and the exultant swearing in the effortlessly funny stage act sparked off one another splendidly. The attempt to do the same thing in Australia is nearly very bad. Connolly now exploits his own celebrity status, enthuses over everything lika David Bellamy on speed - "Un-be-lieve-ablel" he bellows repeatedly at the Sydney

> ing "person-hole-covers" was funny in 1969. Three out of 10: The Mind Traveller (BBC2 Thursdays). Oliver Sacks also comes danger-ously close to celebrating his own celebrity. The subject of this opening programme, in a series promising a journey "through tha mysterious folds of the

Television/Christopher Dunkley

Nine new shows – in reverse order

ease capable of taking very mild or appallingly extreme forms, and limited to a tiny area of Guam. But Sacks' royal progress among the sufferers put you in mind of a ward round by James. Robertson Justice. The result was television's version of a raree-show. ■ Four out of 10: Staving

Alive (ITV Fridays). ITV decided that since its nine o'clock drama slot had now contained 926 crime series the time had come for a hospital series, there having been a mere 874 of those. Hence this bedpan saga set in the Gilmore Hospital, wittily known as the Kill More. Episode Harbour Bridge - and works ancient material to death. Scorn-1, which was a sort of Magnificent Seven round-up with all the characters being introduced,

tried to achieve the speed and impact of ER but felt instead like Casualty. Formula drama, proficiently made, it will probably do its job and hold up the ratings for the advertisers in this key evening slot.

- Five out of 10: Wanted downbeat? The opening story of (Channel 4 Sundays). A game a young heroin addicted prostishow which takes the idea of Treasure. Hunt, adds more money, more peopla dashing around the country, pursuers on the lines of The Fugitive, expert commentators in the studio (a former member of the Flying Souad and double agent Oleg Cordievsky) and as presenter, for no obvious reason, right wing newspaper columnist Richard Littlejohn. The determination to inject drama by arranging to have the hunters close behind the hunted while the programme is on the air looks strained, but if Boy Scout wide games are your thing you may enjoy this.

■ Six out of 10: Accused (BBC1 Sundays). Yet another courtroom drama, looking remarkahly like Granada's Crown Court. Nobody would plan for a half-hour drama series to run from 11.35 until after midnight on a Sunday, so something must have gone wrong here. Too

tute, trying but failing to break away from an evil pimp, was certainly not the merriest way to end the weekend. But Christopher Reason's script was taut, and the acting was good.

Seven out of 10: Where's Elvis This Week? (BBC2 Sunday). British chat shows are in the doldrums because producers have focused on the presenters instead of the guests and very few presenters are up to it. This series goes back to the idea of concentrating on the guests. Better still It has a new wheeze: to interpret the Americans for the British and vice versa. Made in New York, with an American host (Jon Stewart, bright and capable) it has two American guests and two British who try to sort out just how we come to be two caltures divided hy a single language. This week's subjects - fitness, obesity, sitcoms - worked well, although the British guests, Martin Clunes and David

Baddiel, were much livelier than their American counterparts. Eight out of 10: Thurd Rock From The Sun (BBC2 Thursdays). An American comedy which sounded donhtful hut proves remarkably effective. Here is a sitcom which actually depends for its com upon a strong and unusual sit: fonr

aliens assume human form to study the human race. Portraying human habits, social conventions and emotions in literal fashion, as seen through the eyes of an alien, does make homo sapiens look like homo idioticus. Mr Spock has been milking the gag for decades in Star Trek, but it is still funny. A male alien at a party kisses a female guest who slaps his face, so when he leaves and the hostess pecks him goodbye on the cheek he slaps her confidently round the chops. A female alien who starts crying is asked hy a fellow alien "What are yon doing?" and replies incredulously "Leaking apparently", and so on. Funny.

Nine out of 10: Soho Stories (BBC2 Mondays, Tuesdays & Wednesdays). A verité documentary series about life in the area of London's West End which specialises in strip joints, restaurants, prostitution, the cinema industry and much besides. I hegan going to Soho to huy secondhand books when I was 11. Today I record a radio programme once a week in a Soho basement. In the intervening 40 years people heve repeatedly told me that "Soho isn't what it was" and they are right. That is its strength and part of its charm: immigrants, wannabes, crooks and geniuses are always passing through. Monday's epi-sode showed the Soho synagogue closing, which was sad, but Christopher Terrill who has made this wonderfully fluid and entertaining series on a modern lightweight camera, seemingly virtually alone, understands his subject well enough to know that something else will open. Via this series we already know Denny the drag artist and Gerard the director at the Raymond Revuebar as well as viewers know the characters in soap operas. Why end Soho Stories? Just run it three times a week indefinitely: the world's first entary soap.

11

is dismaying how seldom Shakespeare's plays are alive on the British stage today, despite the great frequency with which they are revived. Actors and directors here behave in Shakespeare as they seldom do, curiously, in Ben Jonson or Marlowe; they treat him as a too-familiar premise for fancy performing style, for striking visual effects, for clever reinter-

Focus on-non-verbal effects: Rachel Sanders as Ariel in Shared Experience's new production

Theatre/Alastair Macaulay This 'Tempest' hits the rocks

focus on was all non-verbal: effects praises her, my friends realised they taken in a word be tions - but they cannot be

Mike Ka delivered a death-blow to the play. An entirely meagre performance, Meanwhile, of course, physicality and what people now call "theatricality" abounded. Prospero and others played meaningfully with mean-ingless piles of sand around the stage; the white sails of the stage; having tossed to show a tempest,

became moving screens to effect changes of scene; the storm was also by waves and cris crosses of movement, some with ropes; and Miranda did several mock-exotic gestures to demonstrate her alien nature. Wind noises sounded through - drowning or muffling - several important episodes. Some of Peter Salem's music was far more poetically alive than any of the text. Yes, Meckler's production has virtues, hut they are virtues that Shared Experience (a company known for its physicality and in particular for its adaptations of novels) has stuck all over The Tempest like luggage labels. The play itself is left a lifeless and inconvenient blank which Shared Experience covers with style, style, style,

Concerts/David Murray Chailly in elegiac mood

he conductor Riccardo Chailly has been touring Spain with the London Symphony Orchestra, and at the Barbican last week he led them in a pair of concerts: early Britten with late Mahler on Wednesday, and on Thursday early Schoen-berg followed by the whole first act of Wagner's Die

Walldire. Not what one might expect from an Italian conductor; but Chailly's repertoire is uncommonly wide-ranging. To all this music he brought a full measure of conviction. and the LSO's playing for him was alert and beautiful. If there was anything slightly "foreign" in his readings, it was the near-absence of flexible Teutonic rubato, at least in the nonoperatic music; Chailly likes very steady tempi.

So treated, Britten's Sinfonia da Reaniem sounded particularly elegiac and distanced, almost marmoreal no note of hysteria in the "Dies irae", and only temper-

ate consolation at the close. required, a lovely mezzo-ish Mabler's Tenth Symphony, timbre (which always suits played here in the version completed by Deryck Cooke, this role). Better German would halp: in that respect, Berthold Goldschmidt and Wolfgang Schmidt's superb the Matthews brothers, was diction as Siegmund left infinitely melancholy and Dalayman's words sounding limpid. Its extraordinary disdisappointingly muzzy. Schmidt's intelligent, thorsonant counterpoints became transparent, and the finale ethereally poignant. oughly professional perfor-

mance grew more impressive as the act progressed. His choenberg's Verktenor has a hard ring, and in lärta Nacht shared the same tone on the forte a distinct component of paint-stripper; but he was tirelessly equal to the forminext night. Little Sturm und Drang in the dable demands of the role, workings-out, but perfect and managed to shift into a poise and gentle radiance in the final "transfiguration"; softer, gentler mode for a few blessed moments. Chailly used Schoenberg's By contrast Gudjon later, subtler transcription Oskarsson sang the brutal (1943) of the sextet for string hand, and made all its

Hunding in a most mellifluous, unthreatening bass - a pleasure to hear, if not exactly a vintage hrute. Musically, this was an outstanding account of one of His Sieglinde was the young Swedish soprano Katarina the most inspired acts of the Ring; and I should add spe-Dalayman, who made an enormous impression: absocial thanks to the LSO cellos, who seized their sumptulute confidence, power and ous opportunities with a delicacy as and when will.

Bottomley argues the heritage case

In the long Walkibre act he

supplied richly sensitive sup-

port for his three singers.

details glow.

, eritage secretary ing the case for Heritage. Virginia Bottom-ley is in Leeds today, telling the British Urban Regeneration Association how the arts and the heritage can breathe new

The Arts Council is terrified that its promised reduction lower taxes. of £3.2m for 1997-98, leaving it with just under £183m, will be greater. Some pessi-

Heritage takes its place with other ministries in financing All Bottomley can do is to

try and convert some lottery money into revenue funding through wider access

bothered to tell the stories in an cal. A mime prologue showed a sexinnocent way that will help newcom- ual encounter between Caliban and ers to his plays. -

The new Shared Experience staging of The Tempest, mildly pretentious and extremely dull, is just the latest example of this depressing and decadent trend. Watching it, you cannot help but discuss the things Shared Experience have chosen to read into or impose upon Shakespeare; hut there is almost nothing to be said about the actual words that Shakespeare wrote, for these are so flatly (and artificially and crudely) delivered that they reach your ear dead, stillhorn. This kind of production usually angers me. On this occasion, since I wetched It with three friends who were seeing The Tempest for the first time, I felt also very sad. Here, what we were encouraged to

Miranda interrupted by Prospero. You could scarcely hear Caliban's transcendent speech of how "The isle is full of noises" because you could not get past the semi-strangulated vocal tone and English-as-a-second-language elocution with which Richard Willis uttered it.

Sure, Ariel (Rachel Sanders) sang fairly pleasantly some very pleasant ; but few of the words she sang mus could be made out. Even Trinculo's classic joke about "The State totters" and Miranda's radiant "O brave new world" exclamation fell flat. Miranda (Rebecca Jackson) spoke in an exaggeratedly artless, adenoidal, wild-child manner, and Ferdinand (Adé Sapara) so lisped that, when, after the performance, I read again the lines in which he

had been speaking. There were worse than this: Alonso, Sebastian, Gonzalo, Antonio. The freshest speaking came from Lucas Hare in the smallest roles.

ut why blame individual actors? Nancy Meckler. artistic director of the company and director of this production, must take responsibility. In recent years, I have seen Michael Cashman play several Shakespearian roles. As Prospero in this produc-tion, he takes further the worst tendency he has shown in them steady monotony of utterance without any sign of his real virtues as an interpreter. Hardly had the play begun than, by chanting his long narration to Miranda in ashgrey tones and leaden emphasis of metre, he lost his audience and

At the Wolsey Theatre, Ipswich, antil November 9. Then touring.

cities. She is speaking at the new Royal Armouries Museum, one of the few success stories from the Private Finance Initiative, and the most ambitious development in a city that has gladly embraced tourism and the arts after the decline in its textile industry.

money: £2.4b of lottery funding has already been pumped - or promised - into But Bottomley's words are not for the converted but for communities; the arts alone the sceptical in the Treasury. At the last momant she have benefitted with £650m is still trying to influence and heritage with £300m. Of the Budget ou November 26. course John Major, who created the lottery, pledged it As things stand now her own budget at Heritage, of 1960m, will be cut to pay for capital projects but its very more hospital beds and presence makes it easy for reductions in taxes.

She faces a hard task argu-

mists forecast a £10m incischemes and the stabilisalife into depressed inner sion, which would force the council to make invidious tion fund, while pointing the arts towards other sources of choices, protecting some while sacrificing others, perhans to closure. In the event Bottomley might keep the grant reduction to £5m. The problem is that Bot-

income. Local authorities. with over £200m, give more to the arts than the Arts Council; the Foundation for Sport and the Arts is worth over £20m a year; arts spontomley is fighting her corner weighed down with lottery sorship weighs in with £80m; and there is the Single Regeneration money and European Development Funds: She wants to direct attention away from the Arts Council and its annual whinge. She also wants to make the point that at least would provide additional she, and John Major, believe money to be concentrated on, in lottery funding of the arts.

Antony Thorncroft



■ AMSTERDAM

CONCERT www.Tel: Concertge

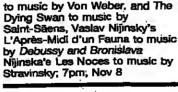
31-20-6718345 Rotterdams Philharmonisch Orkest: with conductor Tuomas Ollila and pianist Oll Mustonen perform works by Tippett, Beethoven and Nielsen; 3pm; Nov

BERLIN

CONCERT Konzerthaus Tel: 49-30-203090 Leloziger Streichquartett: perform Beethoven'e String Quartet in F major (based on Piano Sonata No.1, Op.14), String Quartet No.1 In F major, Op.18 and String Quartet No.1 in F major, Op.59; 7.30pm; Nov 7

DANCE

Staatsoper Unter den Linden Tel: 49-30-20354438 Ballett der Staatsoper Unter den Linden: perform Michail Fokine's Les Sylphides to music by Chopin, Le Spectre de la Rose



CONCERT Kölner Philharmonie Tel: 49-221-2040820 Gürzenich-Orchester and the Kölner Philharmoniker: with conductor Leopold Hager and violinist Torsten Janicke perform

works by Tchaikovsky, Szymanovsky and Dvořák; 8pm; Nov 10 (11am) , 11, 12

COPENHAGEN

DANCE Det Kongelige Teater Tel: 45-33 69 69 69

 Hamlet: a choreography by Peter Schaufuss to music by Sort Sol and Langgaard, performed by the Royal Danish Ballet and the Royal Theatre Orchestra; 8pm; Nov 8

EXHIBITION

Ny Carlsberg Glypothek Tel: 45-33 41 81 41 125 Years of Danish Sculpture - Danish Sculpture Around 1900 and Carl Jacobsen: on the occasion of the 125th anniversary of Den Danske Bank, a series of exhibitions is presented at 18 art museums and galleries all over Denmark under the title "Danish Sculpture in 125 Years". Each exhibition provides a comprehensive survey of what

has happened in the field of Danish sculpture since the era of the Classicist sculptor Bertel Thorvaldsen; to Nov 17

DUBLIN

CONCERT National Concert Hall -Ceoláras Náislúnta Tel: 353-1-6711888 Garda Gala Concert: concert in aid of the Irish Wheelcheir Association, featuring the Band of An Garda Slochána with conductor John King, baritone John Roche and tenor Michael Lang, the Garda Siochána Mala Voice Choir with music director/ baritone Peter McBrien, and the Lady Singers led by Irene Thompson. The works performed range from classical music to traditional military airs up to popular music: 8pm; Nov 7

FRANKFURT AM MAIN

OPERA Städtische Bühnen Oper, Ballet, Schauspiel Tel: 49-69-21237444 Semiramide: by Rossini. Conducted by Sylvain Cambreling, performed by the

Oper Frankfurt. Soloists include Sally Wolf, Dagmar Pecková, Harry Peeters and José Medina; 7pm; Nov 9

■ HAMBURG OPERA

. Ł

Hamburgische Staatsoper Tel: 49-40-351721 Die Entführung aus dem Serail:

by Mozart. Conducted by Bernhard Klee, performed by the Hamburg Staatsoper, 7pm; Nov 8, 10

LONDON

CONCERT Barbican Hall Tel: 44-171-6384141 **Buenos Aires Philharmonic** Orchestra: with conductor Garcia Navarro, pianist Bruno Leonardo Gelber and the Royal Philharmonic Orchestra perform works by Brahms, Turina, De Falla and Ginastera; 7.30pm, Nov 7 figmore Hall Tel: 44-171-9352141 Wolfgang Holzmair: recital by the baritone, accompanied by pianist Imogen Cooper. The programma includes works by Schubert, Faure and Ravel; 7.30pm; Nov 8

DANCE Peacock Theatre Tel: 44-171-314-8800 2: a choreography by Edouard Lock to music by Pop and Bryars. performed by La La La Human Steps, Soloists include Louise Lecavalier; 8pm; Nov 5, 6, 7, 8 **Royal Opera House - Covent** Garden Tel: 44-171-2129234 The Prince of Pagodas: a choreography by Kenneth MacMillan to music by Britten, performed by the Royal Ballet. Soloists include Darcey Bussell and Jonathan Cope; 7.30pm; Nov

NEW YORK

CONCERT

1-212-875-5050 Christopher Parkening, David Brandon and Jubilant Sykes: the oultarists and baritone perform. works by Sanz, Praetorius, J.S. Bach, Sor, De Falla, Granados, Albéniz, Villa-Lobos, Domeniconi, and others; 8pm; Nov 7 Avery Fisher Hall Tel: 1-212-875-5030 National Chorale: with conductor Martin Josman perform Mozart'e Requiem; 8pm; Nov 8 Camegie Hall Tel: 1-212-247-7800 San Francisco Symphony: with conductor Michael Tilson Thomas and violinist Anne-Sophle Mutter perform works by Hamison, Penderecki and Berlioz; 8pm; Nov

Alice Tuily Hall Tel:

Merkin Concert Hall - Abraham Goodman House Tel: 1-212-5013330 Carlo Grante: tha planist performs works by Godowsky; 8pm; Nov 7

SAN FRANCISCO

CONCERT Louise M. Davies Symphony Hall Tel: 1-415-864-6000 Wiener Symphoniker: with conductor Rafael Frühbeck de Burgos and planist Rudolf Buchbinder perform works by Mozart, Beethoven and Brahms; 8pm; Nov 8

STOCKHOLM EXHIBITION Kungl. Akademien för de Fria

Konsterne (Roval Academy of Fine Arts) Tel: 46-8-232945 The face of the 18th century -C.A. Ehrensvärd: exhibition devoted to the draughtsman, caricaturist and writer Carl August Ehrensvärd (1745-1800). Ehrensvärd, strongly influenced by tha antique, is mostly known for his landscapes and caricature drawings: to Nov 10

the Treasury to insist that

■ VALENCIA

CONCERT Palau de la Música i Congressos Tel: 34-6-3375020 Orquesta de Valencia: with conductor Manuel Galduf, oboist Miguel Morellá, bassoonist Juan Sapiña, violinist Enrique Palomares and cellist Maria José Santapau perform works by Haydn and Bruckner; 8.15pm; Nov 8

VIENNA

DANCE Wiener Staatsoper Tel: 49-1-514442960 Manon: a choreography by Sir Kenneth MacMillan to music by Massenet, performed by the Wiener Staatsopemballet. Soloists

Include Simona Noja, Roswitha Over, Vladimir Malakhov and Tamás Solymosi; 7.30pm; Nov 7

Listing compiled and supplied by ArtBase The International Arts Database, Amsterdam, The Netherlands, Copyright 1996. All rights reserved. Tel: 31 20 664 6441. E-mail: artbase@pi.net

WORLD SERVICE BBC for Europe can be received in western Europe on medium wave 648 kHZ (463m) EUROPEAN

CABLE AND SATELLITE BUSINESS TV (Central European Time)

MONDAY TO FRIDAY

NBC/Super Channel:

07.00 FT Business Morning

10.00 European Money Wheel Nonstop live coverage until 15.00 of European business and the financial markets

17.30 Financial Times Business Tonight

CNBC:

08.30 Souawk Box

10.00

European Money Wheel

Financial Times Business

18.00 Tonight

COMMENT & ANALYSIS

Edward Mortimer **Deadly confusion** Western leaders could stop the turmoil in central Africa

if they were willing to signal a readiness to intervene

allege that weapons are

pouring in from France and

Egypt in preparation for a

large-scale air and ground attack on Rwanda within

the next two or three weeks.

If that bappens, the whole region will descend into a

free-for-all, with the armies

of several states fighting

each other and mass flows

of refugees in all directions.

ably yes, if one or more

major powers signalled a

clear intention to intervene.

If France, the UK or South

Could it be stopped? Prob-

Two letters in The Times yesterday sum np the European debate about central Africa.

12

One, from a former British ambassador in the regioo, advocated military intervention in eastero Zaire - by wbom is not entirely clear, but apparently western countries "with African participation". The other, from a professor of politics, says that "order can only be restored in the Great Lakes region through the emergence of effective domestic regimes which are capable of governing responsibly", and that this process "can only be lengthened by the incuraion of foreign troops".

My instinct is to agree with the latter. The case for intervention was strongest two-and-a-balf years ago in Rwanda, where the then government embarked on a deliberate genocide of the Tutsi minority, killing at least half a million before it was overtbrown by the Tutsi-led Rwandan Patriotic Front. The outside world did nothing until it was too late. France then intervened in the area still controlled by the defeated government. stopping the killing but also, perbaps unintentlonally, beloing the killers to escape.

Since then the same killers have operated from UNsupplied refugee camps in Zaire. Rwanda bas become the Israel of central Africa: a state led by survivors of genocide with an understandable contempt for world opinion" (except that of the US), who rely on their own military strength rather than diplomacy to deal with bostile neighbours and irredentist refugees on their borders.

In this analogy. Zaire is an outsize Lebanon. Its weak government can controi neither indigenous factions nor foreign refugees. Rwanda's new leaders, with their fellow Tutsi who rule

advantage of this chaos account. It is very much Africa - or all three rather than endure its consequences. They have intervened to beip a friendly group of "rebeis". armed and trained by themselves. gain control of a strip of land along the frontier, driving the refugees and guerriliss out of it. The human consequences are horrific as generals and opposition as In Lebanon, but on a ieaders eager to exploit larger scale. wounded national pride in their struggle for the suc-So once again there are

calls for "bumanitarian intervention". This is an cession. oxymoron. Hnmanitarian action focuses purely on the relief of suffering, while military intervention involves attempting to remove its causes

In this case the political aim of intervention is even less clear than usual. Some say it should organise the (presumably compulsory) return of the refugees to Rwanda; otbers that it ahould belp them reach safety further inside Zaire. Yet others argue lt sbould redraw the ex-colonial frontiers, giving separate bome-lands to the apparently irreconcilable Hutus and Tutsis - involving ethnic cleansing on an epic scale.

While the international community dithers, Zaire may take action on its own



Burundi, decided to take Helpless; the victims of western indecision

higger than Lehanon, and issued an ultimatum to indeed than Rwanda and Rwanda and Zaire to respect each others' borders or face Burundi together. Its presihostile military action, the dent may be dying of cancer in France and its regular two governments would army may be unpaid, poorly almost certainly comply equipped and ill-disciplined. certainly if visible prepara tions were made for such But it has a highly trained presidential guard, as well action.

But intervention could not stop there. There would have to be a demilitarised zone along the border, policed by an international General Eluki Monga force. The refugees would Aundu. the chief of staff, bave to be disarmed and either resettled or repatrihas publicly denounced the present government's pasated, the leading war criminals among them identified slvity, demanding a free and sent to the interna hand for the armed forces tional tribunal in Arusha "to drive the invaders out of for trial. The operation the national territory". Reports from Kinahasa would be neither quick not

cheap. Such an ultimatum ls most unlikely to be issued, because none of the governments concerned can predict how it will react when

things get worse. As Hugh Hanning argues in a brilliant short book* published tomorrow, this inability to anticipate the reaction to unpleasantness has been a leading cause of war in this century. In 1914, 1939, 1950 (Korea), 1982 (the Falklands) and 1990 (the Gulf), Britain and/or the US went to war in reaction to aggression - hut only after giving the aggressor every reason to snppose they would not do so. This was because they themselves had not decided they would intervene.

In the cold war, by contrast, Nato made its willingness to fight crystal clear, and its resolve was never tested

Will the west end up fighting in central Africa? If things get bad enough. I suspect we will. The tragic irony is that if only we could decide that in advance, we might not have

*Five Wars, One Cause: Why we need Peace Crimes Tribunals, Parapress

From Mr Robert Solomon. Sir, Michael Prowse's polemic against Keynes ("Spurning Keynes", November 4) ignores history, misrepresents the views of today's Keynesian economists. fails to do justice to Keynes' contributions to our understanding of how economies work, and is meanspirited. Prowse fails to note that

the General Theory was pub-lished during the Great Depression when the probiem was massive unemployment and the US was certainly not consuming too much. More important, it led to a revolution in our understanding of what makes economies move as they do. The concept of aggregate demand and what influences it is at the heart of modernday thinking about the busi-

ness cycle. Prowse misrepresents economists of the Keynesian persuasion. He fails to note that, with a few exceptions. they are in the vanguard of those pressing for reduction of the budget deficit in the

From Mr Stuart Bell MP. Sir, The Confederation of

From Mr Chris Gentle.

Sir, I agree with much of

Stephen Roach's Personal

View (October 22). He is

ouite right to argue that

same path as the US.

both Europe and Japan are

that they will not follow the

However, what needs more explanation is exactly how

Europe will respond to the

tion that the US economy

has met so effectively. An

challenge of global competi-

After privatisation in the 1980s, many UK utilities

were so eager to spend their

cash on foreign ventures

that they were likened hy investment analysts to chil-

dren in sweetshops: they

bought anything they could

approach to operations over-seas. There is a far more

Mr Dale

investments.

see - and were then sick.

US, not telling politicians "to which "advocated policies borrow and meddle". Finally, Prowse tells us

Translation may be evailable for letters written in the main international languages.

LETTERS TO THE EDITOR.

ingly puts it.

tive, way of reaching, out-

this benighted audience.

We shall study the CBI

submission very carefully, as

we shall study the eventual

report of Sir Ronnie Hampel.

They are both important

contributions to the

supported.

Stnart Bell,

corporate governance

debate, building on the

reports of Cadbury and

Greenbury which we have

shadow minister for trade

amount of deregulation that

Europe can take after it has

undergone the present round

of restructuring it is now

because the social and eco-

nomic fabric of Europe

wrenching experience.

Chris Gentle,

senior consultant,

9 Bridewell Place, London EC4V 6AY. UK

The Healey Centre,

would tear under such a

experiencing. This is

and corporate affairs.

House of Commons, London SW1 0AA, UK

Number One Southwark Bridge, London SE1 9HL. We are keen to encourage latters from readers around the words. Letters may be faxed to +44 171-873 5938 (please set fax to fine). email: latters.editor@t.com Published letters are also available on the PT web site. http://www.FT.com

that respected economists such as Paul Samuelson. whom he mentions and whose photograph is shown embraced Keynes' teachings because it gave them the opportunity to save the world hy entering government and managing the nation's affairs. As it happens, Samuelson has never entered government".

Robert Solomon, guest scholar, The Brookings Institution, 8502 W Howell Road, Bethesda, MD20817

Fram Mr W. Stanners. fellow economists, not the Sir, Michael Prowse hits an easy target in Keynes' "convoluted and often inco-"general theory" was his convoluted but highly effecherent musings" which "told left-leaning academics what they wanted to hear", but debating, and out-jargoning seems unaware that this style was required to counter a self-serving and W. Stanners equally tendentious right-leaning establishment, 49b Fen End. Over, Cambridge, UK

Ethos key to boardroom change

change the cultural ethos of companies so that they can be more inclusive and forward-looking. We do not believe legal prescription is the most useful route to achieving progress to that objective. On the two-tier board.

New Labour has been fully aware of the CBI view for some time. We have raised the possibility of providing companies with the option, should they choose to exercise it. of adopting a two-tier board structure.

Restructuring challenge more complex

understanding of this must be based on a more sophisticated analysis of Europe against the US. It is not simply a case of how quickly this restructuring will take very different economies and place.

Take healthcare. Europe manages to provide higher-quality healthcare delivery at less than half of the cost of the inefficient US system. I argue, in my recent book After Liberalisation, that there is a limit to the

Keynes' concepts misunderstood | Naive view of pension that would promote the flexi liability bility of all prices including wages", as Prowse approvspendin

people's

1.1

E - 1 -

61

From Mr Willem H. Buiter Sir. The Commons social This formulation treats security committee's report. labour as a mere commodity, Unfunded Pension Liabilities which may be the only way of patting it into an equa-tion, but is obviously false. in the European Union, is politically naive and economically illiterate ("Pen-Water has never been known to complain if its abundance sions debt stirs Emu reduces its price to near debate", November 1) Many continental EU zero, but people whose members have more generlabour value drops below ous unfunded state pension subsistence level will not schemes than the UK. Demoquietly starve. Keynes graphic developments and noticed that labour units disappointing productivity were also people (and also, that when they returned growth make it impossible to finance present and future bome they were transformed benefits with existing contriinto consumers and savers). but he judged that "it is my

bution rates. This conflict is not confined to social security, but general public, whom I must extends to present and first convince". His so-called future taxpayers and benefi-ciaries of public spending and existing holders of public debt. It is a national polit-

ical issue. The UK is relatively favourably positioned. although the steady increase in the public debt-gross domestic product ratio indicates that the situation here too is worsening.

With or without Emu, there is no chance of the UK taxpayer picking up the tab for the continental pen-

sioner. The Maastricht treaty explicitly forbids it. The argument that a European Central Bank could be hlackmailed into monetising the unfunded pension liabilities of our continental partners is rich, coming from a country with one of the least independent central banks in the EU and a mediocre inflation record. The euro may turn out to be softer than the D-Mark is; it will be harder than the pound.

If cash-strapped governments attempt to borrow their way out, this will raise interest rates throughout the EU. This is a consequence of financial market integration. not of Emu. The notion that the UK can insulate its real interest rates from the rest of Europe hy retaining monetary autonomy is an illusion.

Willem H. Buiter, professor of international macroeconomics, Austin Robinson Building. University of Cambridge, Cambridge CB3 9DD, UK

Winterthur Group

British Industry, in its corporate governance report prepared for Sir Ronnie Hampel's committee, may well have rejected suggestions that economic stakeholders should be

represented in company boardrooms ("Two-tier German boards rejected" November 1), but they did not do so in the context of the policies of New Labour. Put simply, the policy of New Labour is to seek to

Significant increase in profits in sight also for 1996

... For the 1996 business year, we are again expecting a significant double-digit growth rate in profits. The 1996 interim account shows a profit of CHF 248 million. In 1995, the annual profit amounted to CHF 419.2 million. which represented an increase in profits of 15.1%.

* For the 1996 annual account, we are also expecting considerable growth in the shareholders' equity. As against the end of last year, the shareholders' equity rose by approx. 10% to CHF 4.4 billion in the first half of 1996.

In a comparison of the hall-year figures, Gross premiums :ose by aporos, 17% to CHF 14.3 billion. In non-life insurance, this positive development is chiefly due to the acquisitions made in the previous year, in life assurance, it is ascubable to organic prowth mainly in Switzerland, but also in some other European markets. Parallel to this good performance, investments have grown by approx, 16% since the middle of 1995 and now stand at CHF 78.3 billigh. Net investment income in the first half of the year indicates a very good financial result for the end of 1996. Our excellent position as market leader in Switzerland

Group's continued success. We are strongly promoting our operations in the markets of the Asia-Pacific area. which have great growth potential. In North America, we are operating via companies which are firmly established in their regions. We are also resolutely reinforcing our position as one of the leading global insurers of multinational industrial business.

The Winterthur Group's positive development is the result of our clear-cut strategy, which we consistently implement by concentrating on our core business, by further increasing our net worth and profitability, and by focusing our activities on creating added value for our customers and shareholders.

Peter Spälti Chairman of the Board and Chief Executive Officer

Key figures for the first half of 1996

and our strong showing as the fourth largest insurer in

European business form the basis for the Winterthur

Winterthur Group	30-6-96 in GBP m 1039 CHE : 931	30-0-96 in CHF m	31-12-95 in CHF m
Gross promums	7.369.0	14,295.8	22.310.2
Annual profit	128.0	248.4	419.2
in estments	40,341.4	78,262.3	71.937.3
Shareholders equity (belo		4,421.5	4.030.7

Winterthur in Great Britain

Winterthul Life UK, Basingstoke Wintertitur international, London Churchili Insurance Bromley

Winterthur Insurance Head Office General Guisan-Strasse 40 CH-S401 Winterthur, Switzerland

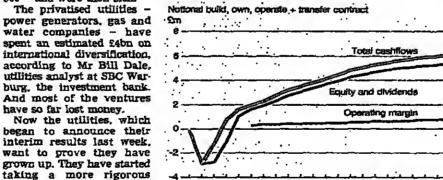
Phone (0)52 261 1111 Phone (0152 261 23 71 (Investor Relations)



Out of the sweetshop

UK utilities are taking a more grown-up approach to foreign investment, says Jane Martinson

In for the long term



2.4 8.8 and Victor

focused approach now than there ever was before," says sold Utag and another engineering company last month, they had made oper-In recent months some utilities have sold the worst ating losses of at least £70m. lossmaking companies bought in the first flush of The London-based utility had already announced a diversification. Others have 195m write-down in March, pulled out of overseas com-petition altogether. But sevmostly to reverse its over-seas policy. Mr Luffram accepts that Thames made eral have continued to expand abroad and bave mistakes. Instead of concentrating on its core water supstepped up efforts to convince shareholders of the ply and sewerage busine long-term potential of these overseas, "we went into design and construction and Executives say exposure to fail fiat on our faces

foreign markets is particu-Thames has moved away from such "non-core" busilarly important because tight regulation of privatised nesses, but it remains committed to overseas expanutilities in the UK - includsion. Presenting its interim ing price controls - is making it difficult to increase results last week it emphaprofits at home. "There is no sised the potential of six conway we can effectively tracts it has won this year improve efficiency and proffrom Turkey to Australia, its in the UK forever," says which work on the build, Mr David Luffram, finance own and operate model and are managed in partnership director at Thames Water. with local companies. The The experience of Thames group won its first such is a salutary lesson in international diversification. In water and sewerage contract the four years after privatiin Malaysia last September, sation in 1989 Thames spent at the start of the review more than £120m on overwhich eventually led to the seas businesses, including write-down and a management reshuffle.

Utag, a German process Anglian Water, which serengineering company which failed to deliver expected vices tha east of England, revenues from eastern Gerdisclosed yesterday that it many following reunificabad lost £6.5m in its internation. By the time Thames tional division in the first six taken over by Scottish the moment."

months of this year. It expects to continue losing money abroad until the end of the century. Bnt Anglian is also emphasising its determination to win more overseas contracts.

Such projects may lose money at first and can be Bnt they can also risky yield high returns over the life of a 20-year contract. Thames believes its foreign operations could be contributing £30m or about 8 per cent of pre-tax profits by 2000.

Other groups have also been at pains to emphasise the long-term benefits of their overseas strategies. In September, National Power. the generating company which has invested more than £800m in overseas ventures in the past five years. announced that it expected to earn 130m after tax from foreign operations in this financial year. In 1997-98 it believes this will increase to 195m, or about 11 per cent of total estimated earnings.

Other, smaller UK utilities such as Southern Water and Yorkshire Water have been less successful, pulling out of most overseas work and concentrating on the home market. Southern Water,

Power this summer, has emphasised its commitment to achieving cost savings in a four-year £1b0 investment programme in the UK. York-shire also decided to concen-trate on winning back the trust of its domestic customers after being criticised during last year's drought.

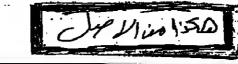
That partly reflects political pressures. Both the regulators and Labour have voiced unease at the possibility that international ventures may be subsidised by regulated domestic domestic operations. "I am in favour of British companies operat-ing abroad," says Mr Frank Dobson, Labour's environment spokesman. "But, in the case of utilities, that must never be at the expense of the customers to whom they are monopoly providers." It is not surprising that

UK groups look enviously at the greater freedom enjoyed by soms of their foreign competitors. On a recent visit to London, Mr Gérard Mestrailet, chairman of Compagnie de Suez. a large shareholder in Belgium's Electrabel and Francs's Lyonnaise des Eaux, spoke enthusiastically about the value of international expansion. His company, he said, had no problem financing projects involving a profit-ability "J curve" - short term losses, followed by escalating long-term gains.

Embarrassed by their previous mistakes and shackled by political and regulatory uncertainty, the UK utilities have a long way to go before they can expect to hear such encouraging words from their own shareholders for foreign ventures.

Mr Lakis Athanaslou, a water analyst at UBS, believes the sector. in spite of its more careful approach to investing abroad, is

unlikely to win much support from the City because possible returns are so long-term. "There is a stereotypical image of disastrous diversification, bnt in fact this is the most promising area for these companies at



Nynex*

BellSout

79.6

15.3

Top four US long-distance operators

6%

Const Const Claim

44.3

15.3

Bel Atlantic

COMMENT & ANALYSIS

FINANCIAL TIMES

Number One Southwark Bridge, London SE1 9HL Tel: +44 171-873 3000 Telex: 922186 Fax: +44 171-407 5700 Wednesday November 6 1996

Throwing the rascals out

If half the allegations levelled Ms Bhutto has always said that administration in Pakistan are true, she richly deserved to be stripped of office. In three short years her government has stumbled from crisis to crisis, while acquiring a reputation as one of the most bent administrations this notoriously corrupt country has ever seen.

Yet President Farooq Leghari leserves only two cheers for the way he has moved against her. Through his repeated warnings about corruption and his efforts to ensure the independence of the judiciary, he has tried to enhance the constitutional role of his office as a guarantor of good government. By announcing new elections in February, he has made it clear that democracy is the only satisfactory way forward. The spag is that three months

··- 19:22

Russi

28 after

ordea

112 A G12

14.975

1.142

in the state

.

· • 2 • • •

TT 4.

1.5.5.5

1.14

1

7.3

 $\sim \lambda$

. . .

.....

- ,*

..

is a long time to wait for elections when Pakistan faces dire economic difficulties. Much of its \$36bn in foreign debt is short term and requires continuous refinancing. Since reserves were perilously low even before Ms Bhutto's removal, the country risks a full-scale debt crunch if its bankers now withdraw.

Confidence might have been higher if Mr Leghari had acted earlier and replaced Ms Bhutto with an interim government of technocrats, akin to that led by Mr Moeen Qureshi, the former World Bank executive, which pulled the country out of a pre-vious crisis in 1993. As long as its mandate was limited in time, that need not, as Ms Bhutto argued it would, have been anaffront to democracy.

Critical moment

Instead he dithered while Pakistan's finances deteriorated, the government's moral authority drained away and respect for the law diminished. By finally installing a weak caretaker government, he has: left the country vulnerable to with the urgent issues of social instability at a critical moment. This would be particularly worrying if the reason for his hesitation was a divided army. Without military support, the deserve something better than exercise could easily backfire. the abysmal record of the first.

against Ms Benazir Bhutto's she would not go quietly.

Stability is particularly impor-tant as Indo-Pakistan relations - always a dangerous potential flashpoint - are at a particularly low ebh and regional tension has been heightened by the npheaval in nelghbouring Afghanistan.

Two tasks now appear urgent. The first is to ensure that the IMF programme remains intact. It incorporates some important structural changes such as the tax on agriculture which will challenge vested interests. Banks, which have crassly lent Pakistan too much expensive short-term money, must realise that they now have more to lose than gain by pulling out. If necessary the IMF must put pressure on them to continue refinancing their loans. It would help if Mr Leghari continues to allow a central role for the eble and apolitical central bank governor, Mr Muhammed Yaqub.

Political task

The second task is political. Mr Leghari'e intervention has heen courageous for a man appointed by Ms Bhntto herself. All sides should now co-operate to ensure that stronger political institutions can indeed produce a stronger democracy. Ms Bhntto must accept that her chance of vindication, if there is one, will come with fresh elections. The corruption allegations against her husband and others must be rigorously pursued, but transparently and without vindictiveness. New legislation to tighten public accountability should he enacted and strictly enforced.

It would be foolish to assume that Pakistan can be cleaned up quickly. All major parties are riddled with corruption, but if Mr Leghari's move is followed through, Pakistan might finally have some prospect of electing a government capable of dealing and industrial development. Its second half-century might then promise some achievements worthy of celebration. Its people deserve something better than

US telecommunications: up for grabs Regional Bell operating companies

US West Communications

Net income 1995 (\$bn)

-1.23

AT&T

MCI

from 1994

6.2%

1995 (Stbn)

17.89

13.41

9.50

Telephone turbulence Richard Waters asks whether the revolution in the US telecoms industry will be as profitable as the dominant operators hope

wo weeks ago, in Hartford, Connecticut, the cables that deliver television signals to many of the city's homes began to carry telephone calls as well.

SBC Communications*

US West Communications

Local operators

BellSouth

Meanwhile, nearly half a million Americans have signed up with AT&T to get access to the Internet, just six months after the telecommunications giant started offering the service. About the same number have

switched their long-distance telephone service to GTE, an operator until now of local telephone networks.

Has the glorious future that bas long been predicted for the US's communications industries finally arrived - a time when deregulation and technological innovation will change the way homes and businesses across the country communicate? And is this the revolution for which British Telecommunications. with its plan to buy MCI, has just enrolled?

If so, then it looks set to be a pretty turbulent period.

Tele-Communications Inc (TCI), the company behind the Hartford experiment, is stretched to the limit by the need to service mountain of

eeem very flet-footed indeed. networks in big cities. The sneak-That, and a decision to appoint a ing suspicion is that the argulittle-known printing company executive as its next chairman, have contributed to a precipitate slide in its shares. GTE has also seen its share

price fall this year, as have the country's seven local telephone companies, also known as Baby Bells. Since February, when deregulation of their local monopolies was set in train by the US Telecommunications Act, the Bells' shares have lost between a fifth and a quarter of their value, while the Standard & Poor's 500 has risen 15 per cent.

This is the country that BT has chosen to enter. The hitherto separate cable-TV companies, Baby Bells and long-distance telephone carriers are about to be let loose on each others' territory, with unpredictable effects on market shares and profit margins. BT's sudden appearance on the scene has added extra spice.

Backed by BT's greater finan-cial muscle, MCI says it will be a stronger competitor, not just for AT&T but for each of the regional Bells. It is the combination of BT's strong cashflow and MCI's well-known eagerness for a be governed by federal or state-fight that has shaken the rest of level regulation - a dispute that US telecommunications could slow the introduction of industry this week, and prompted a search on Wall Street for another wave of giant telecommunications mergers Shares in so-called competitive access providers - companies whose local networks already allow mainly higher-paying business customers to bypass their local Bell company - have jumped in recent days in anticitheir customers to order films on pation of a new round of acquisitions by long-distance or even foreign carriers. At first glance, it is far from clear that MCI needs either BT's capital or its experience of offering local telephone services to attack US local markets, especially since MCI is focusing mainly on serving business customers hy building fibre-optic to upgrade its system to carry

rd. But he wa

SSIVE.*

iropean Bank for

and Saaremaa - which

a splendid brewery and

of the best yachting in the

countries, rather than

The bank, which prides itself

on an unparalleled knowledge of

the 26 post-communist countries

it deals with, blames a "printer's

error", Obviously the focused,

stripped down, post-Jacques

post-communist green:

All at sea

BEERD.

ing suspicion is that the argu-ments in favour of the BT-MCI deal are calculated to appeal mainly to US regulators, who have indicated that they will look favourably on any foreign investments thet would bring greater competition to the US telecommunications industry.

But financial strength will be vital for any company that wants to seize large shares of the various telecommunications sectors that are being opened up. This is e matter of marketing as well as capital spending et a time when profit margins will be under pressure from increased competition. The capital investments being made in the US communications industry at the moment are huge. The local telephone companies are spending \$20bn to \$25bn a year to upgrade their networks and develop new services, says Mr Dennis Saputo of Moody's, the US credit rating agency.

hile a legal wrangle continnes over whether local telephony should

telephone signals. "Telephony is in many ways the most capital intensive [of services], and may be one of the longest pay-back investments," he said.

Not income

0.14

0.55

027

Then there is the mobile telephone husiness. Telephone companies have paid \$18bn this year for licences from the federal government to run so-called Personal **Communications Services net**works, a lower-cost alternative to cellular. They are estimated to be spending at least as much again to build the infrastructure to carry the calls - indeed, this is the purpose for which Sprint has earmarked the \$40n it has raised hy selling stakes to Deutsche Telecom and France Télécom.

However, as MCI's recent agreement to resell mobile calling services carried by a rival company demonstrates, compa-nies do not necessarily need to own their own physical infrastructure to offer telecommunications services. Even leaving aside capital spending, developing and marketing new services can cost a huge amount of money and

have a depressing effect on profits - as the mighty AT&T has proved in recent months.

financial results since the spring reflect a move to put more of its

market has pushed profit margins on operating cashflow down to around 19 per cent. The comparable margin for local calling services is 47 per cent.

13

2000

To slow the inevitable shaving of these margins, most big tele-communications companies are taking a similar approach. Called "bundling", it involves selling a broader array of services in packages - local, long-distance, cellu-lar and paging, for instance, all hundled together on the same bill. Besides the revenue enhancing possibilities of this approach, it may help communi-cations companies to dispel the perception that they provide e commodity product while helping to strengthen their relationships with customers.

The average US household spends about \$75 a month on local and long-distance calling and cable television, says Mr Naccio at AT&T. "We have only a small piece of this disposable income." he adds.

There is another reason for Wall Street to feel less gloomy about the prospects for US tele communications companies: the fight for customers in the new The company's disappointing world of US telecommunications is not a zero-sum game,

The volume of

people's taxes

Spending the

ar will be a greater proportion of national income than during the first world war. But most of it now goes on welfare rather than guns.

This was not, perhaps, the statistic which Mr John Major, the prime minister, had in mind when he said in September that there was a moral case for reducing state spending. However, it casts e curious light on the dilemma of his ministers yesterday as they struggled to control its rise for next year's budget

Defence spending, at ahout £21bn this year, is one of the few programmas to offer a chance of cuts. At 3 per cent of GDP, it is now 27 per cent less in real terms than at its peak in 1984-85, but it may still be too high given the collapse of the iron curtain. However, leaving

aside the argumants about maintaining a military capability, the fact is that this is no longer where the big hillions are consumed. Defence represents 7 per cent of general government expenditure and, relative to the elze of the economy, it has fallen by a third compared with its position in 1979.

Some further economies may be scraped from this and from other departmental budgets. But after three years of very tight expenditure controls, more. ruts have been hard to find without an explicit governmen decision that the state should do less. In the three big spending departments - health, education and welfare, which now account for 60 per cent of the total (50 per cent in 1979) - significant cuts are impossible in an election year and difficult thereafter.

Keeping pace

For health (15 per cent of total spending), costs will continue to rise in real terms if spending is to keep pace with new treatments and the needs of an ageing population. Health spending is now 70 per cent higher in real terms than when the Tories came to power. Despite some slight easing of pressure from demography, it is unlikely that the trend will change much ent government.

UK government spending next without a radical alteration of policy - as the demand yester-

day for extra cash showed. In education, numbers are now meynes up again. Some 200,000 additional schoolchildren in three years' time could add about \$500m to costs, unless class sizes are allowed to increase. When these children reach higher education, they will add further to cost pressures. So, although real education spending has risen by a mere 30 per cent since 1979, governments will be under strong pressure to curb future growth. In this decade the proportion of

teenagers going to higher educa-tion has risen steeply from under 20 per cent to 30 per cent, so the presumption of free universal access, already eroded by student loans, is bound to come under further question.

Explosive growth

The most explosive real growth, however, has been in social security spending, up 84 per cent since 1979 and now consuming 13 per cent of national income (relatively more than all public expenditure in 1913). Falling unemployment is helping to curb growth, but unemployment benefits (excluding sickness and income support) account for less than 10 per cent of the total, compared with just under half for pensions. The government's sures to curb benefits and to ensure that benefits do not rise in real terms may therefore do little more than reduce the growth of these transfers.

More generally, present spending plans depend on a continued standstill in the publicsector pay bill and a damaging gap in public-sector investment, which the Private Finance Initistive can not fill.

As things stand, the government will do well simply to hold public spending steady at about 40 per cent of GDP. Even if it succeeds in that aim, it will not be able to cut taxes significantly and still reduce the deficit as it must. Tighter targets would require a radical review of state activities.

But that will be for a different Budget, and, probably, a differ-

debt. The company's share price has sagged by 35 per cent this year, as its cable systems around the country bave come under competitive attack from satellite and other television services.

AT&T, which until last week was the US's only contender for global leadership in telecommu-nications, has suffered a setback in its own core business long-distance telephone calls. Rival carriers such as MCL along with a rash of low-cost resellers who buy calling capacity in bulk and sell it on at discounted rates. have turned up the competitive

heat this year. In the midst of a restructuring that was meant to leave it ready for the next wave of competition, AT&T has suddenly been made to

Red carpet

ALL STREET

THE PARTY

adviser at Coopers Lybrand

and something of an old China.

competition in some states there seems little donbt that widespread competition for local calling will begin early next year. The cable television companies, meanwhile, are set to lift their investment to between \$5bn and \$6bn a year on such products as new set-top boxes and cable modems, which would enable

demand or use their cable service to link to the Internet. That might be less of a drain on capital than investing in local telephone services. Speaking recently, Mr Brendan Clouston, chief executive of TCI Communications, predicted that It would cost the cahle-TV company

between \$200 and \$250 per home

money behind developing local, mobile and other services, rather than purely the long-distance business, says Mr Joseph Naccio, the head of AT&T's consumer and small business operations. "We took some risks there, and some of our product lines grew

slower," he says. Even before full-scale competition in the local and personal communications services businesses is unleashed, the effects of this are clear: AT&T's marketing and selling expenses jumped by more than a fifth in the latest quarter. An all-out battle for market share will unleash a renewed marketing extravaganza.

It will also, of course, hit profit margins. By MCI's reckoning. competition in the long-distance

ried on the country's communications networks is rising by 30 per cent a year, says Mr Gordon Anderson, head of the Yankee Group, a telecoms consulting firm. Even with the price-per-bit of information falling, telephone and television revenues are likely to grow by 12 per cent a year until the end of the decade.

This, for BT's shareholders, could be the strongest reason for investing \$20bn in the US. Whatever happens in the international calling business, Concert, the planned BT-MCI group, would heve e firm foothold in the world's higgest telecommunications market at a time when various lines of husiness - from Internet services to local telephone calls - are opening up.

Financial Times BSER **100 years ago** hand, delivered a faultless, Attali bank has dispensed with he and his accomplices had hute address in Mandarin. propfreaders. damaged The Nativity beyond Said one non-Mandarin But at least it makes a change repair while removing the aker: " ald t understand a for Estonian officials who are CBRVES. more often to be heard It has never been seen since e very complaining about mans which nor has there been a whiff of its. still designate their country as existence on the art market. part of Russia. Entry Patten Fine Balic tiger economy of Familia has many friends and to the nature of the Artless move A poignant moment mirers, not least at the The mystery surrounding one approaches for Chris Patten. The governor of Hong Kong - only recently returned from the UK of the more important Italian art instruction and thefts - the disappearence of Caravazzio's mas erniece The after another round of meetings it it is making rather faster ity - has finally been -flies westwards again next. cleared up. week for high-level talks in ress towards joining the European capitals. European Union than previously Francesco Marino Mannola, leading majioso now turned 50 years ago cted - at least according to Patten will be trying to persuade French president stathe newly published the painting from a Palermo Jacques Chirac and German church in 1969 on behalf of Pipo chancellor Helmut Kohl that weighty tome giving the bank's Calo, regarded as the unofficial they should offer visa-free entry treasurer of the Sicilian Mafia fidered view on recent. to holders of the new Special developments in the Britain may provide Administrative Region passport and the most refined of the communist world, Estonia when Hong Kong reverts to already joined the EU. Giving evidence this week in China next year. the trial of former premier Or rather, part of it has. For But during his stop-off in maps in the 210-page Estonia's two islands maps in the 210-page book Bonn, Patten will also find time

Giulio Andreotti (who is accused of links with the Mafia) he said the painting was intended for a "special" client who Calo said would "go mad over it"... Re strongly hinted he believed

the Caravaggio was due for Andreotti. The former premier ridiculed the idea, saying he had never gone mad over anything; let alone a picture". But what did seem credible

about the testimony of Marino Mannoia was his admission that to address the Kourse Adenauer foundation on matters European. It was to this audience that John Major gave his famous "heart of Europe" speech back in 1991.

And the principal author of Major's now-ignored pledge that Britain would henceforth swim in the European mainstream? Step forward the Strauss loving governor.

The United States and Cuba New York - Mr. Lee, United States Consul at Havana. arrived bere this morning. He admitted that he had come to make a report to President Cleveland on the condition of affairs in the island, but he efused to be interviewed as entations he was about to make. "The Evening Telegram" asserts that Mr. Lee said to a friend, "It will not sururise me if I return to Havana on a warship". The accuracy of this statement is however, doubted. [Dalziel],

British Loan for Czechs A decision is expected within a few days on completing the agreement whereby Great Czechoslovakia with a £2,500,000 credit for buying British surplus war material. Dr. Augenthaler, head of the Economic Section of the **Czechoslovak Foreign Office** said in London yesterday that the loan from Britain had been negotiated long before there was any question of the United States suspending credit facilities to Czechoslovakia. He denied that surplus stores bought under the \$50,000,000 credit from the United States had been transferred to the Rumanian government.

cowie Interleasing CAEL 0345 585840

14

HOW DO YOU CONTROL THE COSTS OF CARS, IF THEY KEEP MOVING? Ask Covie Interlocking. As the UK's loading huston and Nort management company wa'll ensure you get the best possible value from your field

FINANCIAL TIMES



Wednesday November 6 1996

EU companies may face Pakistan monetary union tax bill

By Gillian Tett in London

Some European companies could face unexpected tax bills after European monetary union, accountants are warning.

The tax liability may arise because the locking of exchange rates at the start of Emu. scheduled for 1999, means companies will need to revalue long-term assets and liabilities denominated in foreign currencies.

This may force some companies, particularly in Germany, to realise significant exchangerate "gains" - potentially affecting their accounts and tax liability for 1998.

Mr John Heggarty, secretary general of the Brussels-based FEE, the federation of european accountants, said: "This is a serious issue which many companies have barely considered yet - but it is only two years away.

The federation plans to assess the scale of the problem in coming weeks. The German accountants' association has also started discussions.

Cbernomyrdin spoke with

some of the demonstrators

gathered outside the White House, the seat of the Russian

goveroment, and pledged to

take over for three months if

Mr Yeltsin were to die or

become locapacitated.

appeared to play down his tem-

sharply on oews of the suc-

cessful surgery, with prices ris-

ing by between 1.5 percentage

points and 3 perceotage points.

sin survived the post-operative

period. Russia's planned euro-bond launch could benefit

from the perceived decrease in

Bayer talks

Bankers said that if Mr Yelt-

Russian bond prices rallied

porary stewardship.

political risk.

But the premier, who would

pay their delayed salaries.

Yeltsin

Continued from Page 1

Meanwhile, the European visions against exchange-rate Commission will present a losses, they are not allowed to paper to European Union realise any gains until the loan states next week calling for or asset has matured. Realising these gains could lead to a revaluation of assets greater co-ordination over accountancy questions posed by Emu. and loans. For example, a 10-

The move comes amid growyear loan in Italian lire - or ing concern that Emu could French francs - could have changed in value against the lead to competitive distortions D-Mark over tha loan term. because countries are likely to Mr Karl Lemnitzer at KPMG in Frankfurt said: "The logic of treat Emu accounting issues such as provisions made for companies' Emu-related inveatments - differently. Germany's accounting rules is that (Emu) will have valuation Although the Commission is implications." trying to bring European accounting standards in line Some French companies might also be affected, with global standards, EU although French accountants

said large companies tend to realisa exchange-rate gains countries remain reluctant to harmonise their systems. Mr Stephen Dale of Price more regularly. Mr Benoit Waterhouse in Paris said: Lebrun of the Paris accoun-"Rearing in mind the numbers tancy group Salustro says: being bandied about for the The problem is much worse corporate Emu costs, yon in Germany than France." The UK, by contrast, is unlikely to be affected since could get aignificant distortions arising from different tax

British companies regularly Germany is expected to be revalue assets to take account among the worst affected by of market movements. Change in bond rules urged,

Although its accounting rules allow companies to make pro-

troops surround **Bhutto's** house

By Farhan Bokhari

Pakietan's new government was eworn in yesterday as Ms Benazir Bhntto, the former prime minister, remained under what amounted to house arrest in Islamabad. Mr Meiraj Khalid, the new

interim prime minister, said the government's priority would be to hold "free, fair and impartial elections" on February 3.

Mr Farooq Leghari, the president, sacked Ms Bhutto early yesterday after accusing her government of corruption and misrnle, ending months of growing hitterness between the two leaders. Government troops mean-

while surrounded the prime minister'e official residence where Ms Bhntto remained. She was unable to make telephone calls or receive visitors. Troops were also deployed around key government loca-tions and airports.

Confusion continued last night over the whereabouts of Mr Asif Ali Zardari, the prime minister's husband and former investments minister. Ms Bhutto's Pakistan People's Party said he had heen arrested on charges of corruption, but there was no official confirmation.

In a proclamation onsting the prime minister and dis-solving the lower bouse of parliament, the president said government could not be carried on in accordance with the constitution, and an appeal to the electorate was necessary. He added: "Public faith in the integrity and bonesty of the government has disappeared." Mr Leghari, a former ally of

Ms Bhutito, accused her gov-ernment of failing to stop the killings of bundreds of people at the hands of police in the southern city of Karachi.

Pakistan's main opposition leader. Mr Nawaz Sharif, welcomed Ms Bhutto's downfall as "deliverance of the people". He was confident his Pakistan

THE LEX COLUMN **Destroying Valeo**

e to the Could Indian

FTSE Eurotrack 200:

1814,4 (+5.7)

Share or the s

· n.

1.1

Yesterday's "French solution" to the future of car parts maker Valeo produced one winner and a lot of losers. Mr Carlo De Benedetti, who is selling his 27 per cent stake in Valeo at an 11-14 per cent premium to the market price, must be rubbing his hands. He might have got more from an industrial bidder. But none of the potential candidates, such as TRW of the US or Germany's Siemens, showed any sign' of wanting to brave French political opposition.

By contrast, minority shareholders in Compagnie Générale d'Indus-trie et de Participations, the family controlled holding company, should be furious. CGIP is paying a hefty premium for a 20 per cent stake in a company that is heavily exposed to the dire French car market and with little scope for improvement since it is already well-run. And because its stake does not give it control, CGIP may well have to mark it to market in its accounts bad news for a company already trading at a 50 per cent discount to net assets. Nor does the deal do much for Valeo shareholders. The chance of a takeover premium has disappeared and the promise of bigger dividends is balanced by the prospect of future share issues. But tha biggest loser is France, whose laggardly approach to shareholder value has been confirmed again.

Iri/Stet

Mr Romano Prodi, Italy's prims ninister, has staked much of his redibility on privatising Stet, the state-controlled telecoms conglomerate, by next March. But this much-delayed share sale is likely to pe postponed yet again.

With the former Communist party, a partner in Mr Prodi's coali-tion, opposing the sale, it is nearly impossible to pass the necessary egislation. Last week the party tabled 5,000 amendments. If the leg-Islation is late, there is little bope of tanning international capital markets before next November because the calendar is crammed with planned privatisations for other European telecoms groups.

Postponing Stet's privatisation would not only put back the cre-ation of an efficiant Italian telecoms market but would also be a headachs for Iri, the near-bankrupt state holding group which owns 63 per cent of Stet. Italy has promised the European Commission that Iri - a generous source of subsidies to state-owned Italian industry - will

nies – a bank, a semiconductor company and an industrial promotion agency - to help tide it over its financial problems.

Such an injection of assets would, of course, make a mockery of European Union rules banning state aid. But Brassels, which has little credibility on policing government subsi-dies (vide Crédit Lyonnais), would probably do no more than huff and puff. By contrast, dismembering both Iri and Stet would require political courage. It will be a test of Mr Prodi's government whether it has the nerve to grasp this nettle.

÷

- 21

- Ý 🕽

Lloyds Chemists

A contested bid is a wondrous process. Though Lloyds Chemists is worth less now than it was at the start of the year, both Unichem and cut its net debt from L16,000bn (\$10.5bn) to L4.500m by June next year. But without cash from Stet, Gehe have renewed their previous offers of around 500p a share. And Italy seems destined to renege on given the time and money invested by both sides, they will almost certainly force each other into another increase, which could be worth an additional 20p or so.

- Still, all is not lost. There is one way the government could simulta-neously meet the Commission's deadline, create an efficient tele-The higher the price, the more it favours Gehe, for two reasons. coms market and add a few trillion First, Unichem is already at full lire to Treasury coffers: by buying Stet from Iri and breaking it up. stretch. According to analysts, if it Paying Irl the L12,000bn market wins at this level Unichem will make a 12-13 per cent after-tax

its commitments once more:

value of its Stef stake would cut the group's net debt to the Commission-mandated level. But because Stet's return on its investment in Lloyds in 1998, the first full year after break-up value is about 25 per cent acquisition. That assumes, perhaps rather generously, that it will more than its market value, the government could turn a profit of L8,000bn on the deal. That should help avoid any concern in Brussels that the state was giving Iri yet another subsidy. Dismeinbering Stet, essentially a holding company with high central overheads, would also make industrial sense.

· Unfortunately, unbundling Stet is easier said than done. Not only have Stet's management and its political allies resisted past attempts to dismantle its empire but Iri would fight the removal of Stet from its portfolio as that would diminish its own power base.

Breaking up Irl - whose assets include the national flag-carrier, the state-run broadcaster, Italy's motorways and most of its defence and aerospace industry - would make abundant sense. If the Treasury could get direct control of Iri's assets, it might be able to hasten their privatisation and stop the steady flow of subsidies.

Not surprisingly, this is the last thing Iri has in mind. Quite the reverse. It is lobbying the government to give it three new compa

deliver more than its forecast cost savings of £20m and has no trouble disposing of Lloyds' bealth food and drug store chains. If those savings do not come through, or it raises its bid much higher, the return will quickly slip below Unichem'e 11 per cent cost of capital and destroy shareholder value. Gehe, by contrast, has a lower cost of capital, dne to its larger size and use of cheaper debt to fund its offer. It can therefore pay more and still justify the deal to its own shareholders. Second, as the two goad each

other into overpaying for their target, the clean exit offered by Gehe's all-cash offer will become more and more attractive. If Lloyds investors accept Unichem's bid, which is largely in shares, they expose themselves to the risk that the deal goes wrong. There are also longer-term worries about the direction of the stock market and the prospects for pbarmacies as supermarkets pile into their market.

> Lex comment on M&S and Whitbread, Page 22

By Michiyo Nakamoto in Tokyo

potential currency changes.

treatments

The Japanese government agency charged with recovering debts owed to failed bousing loan companies, or jusen. yesterday started hankruptcy proceedings against an Osaka

property developer, one of tha biggest customers of the jusen. The bankruptcy of Sueno ties.

Kosan will be Japan's second largest since the war and is expected to trigger the collapse of more non-bank financial institutions that lent heavily to the property group. Sueno Kosan and its affiliates have

jusen of ¥347bn (\$3bn). velcomed the Housing Loan

bankruptcy of property group

from creditors.

weeks after the country's larg-est postwar bankruptcy, that

bailed out with Y685bn of gov-

Japan seeks \$3bn

bankruptcy within days, and yesterday ordered its assets,

along with those of two of its affiliates and its president, Mr Kenichi Sueno, to be protected The move comes just two

of Nichiel Finance, which went under with Y991.4bn in liabili-Mr Wataru Kubo, finance

minister, said the move was crucial for recovering loans made by the jusen, and reiterated that the government would not rescue troubled nonbanks. The jusen are being

outstanding loans from the ernment money. DO KOS

Continued from Page

the Agfa films bosiness, were due to be posted in the fourth quarter.

In the first nine mooths, -tax profils rose 12 per cent to DM3.7bn on sales up 7.4 per ceot to DM36.5bn. Most of this increase was because of acquisitions in plastics, printiog plates and fragrances. Results were also boosted by favourable curreocy movements.

Mr Schneider reaffirmed a commitment to raislog the group's operating profit margin to 15 per cent over the next four to six years. It continued to fall far short of this target, with a significant number of businesses still recording losses, he said.

Administratioo Corporation's action, which it believes is a necessary step to restore the credibility of Japan's financial system. This is still burdened by bad loans taken out by developers to buy overvalued property at the peak of the asset price bubble in the late 1980s

Foreign investors will also e pleased by action to clear up those bad debts, which pany unrecoverable. have not yet been made public. The leading banks have declared their bad debts, but the full exposure of the less tightly regulated non-bank institutions is not clear. The Osaka court is expected

to confirm Sueno Kosan's

dent have been accused of trynext elections. The new goving to hide assets by hiving ernment also received encourthem off to separate compa agement from the IMF, which said it would continue negotinies. The HLAC's move was seen as an attempt to prevent ations towards a new \$600m this standby loan agreement.Mr However, Sueno has also Shahid Javed Burki, vice-pres borrowed heavily from nonident of the Latin American banks and small institutions

division at the World Bank, which, with the company's was expected to take over the impending bankruptcy, are finance ministry as adviser to the prima minister. expected to be forced to declare their loans to the com-Pakistan's main stock mar ket, the Karachi Stock This, in turn, could threaten Exchange, was closed for a public holiday yesterday, bot

many smaller non-banks without strong parents. according ousinessmen expected shares to rise sharply today. to Mr Rokuro Kuroda, an analyst at Tokyo Shoko Research. Army exercises power but a private research organisation. He believes 20 to 30 non-

shuns the reins, Page 6; Editorial Comment, Page 13 banks could be affected.

ONE

OF OUR

CORE



It will be stormy from southern Sweden to central France and

Europe today

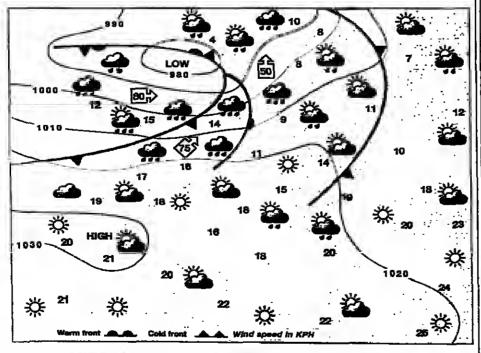
from Ireland to Poland as a low pressure area moves just off southern Norway, Abundant rain and strong winds will accompany a frontal zone as it sweeps acros these regions. Strong gales are expected in the warm air ahead of the front as well as over the Scottish highlands, Sunshine with afternoon temperatures betw 19C and 21C will cover the Iberian peninsula and most of the Black Sea countries although the Bosporus and the Crimea will have palchy cloud.

Five-day forecast

Western Europe will gradually become more settled as low pressure moves to the north-east but frequent showers mat still occur in much of the region. The Iberian Peninsula and the Black Sea area will continue sunny.

TODAY'S TEMPERATURES

Abu Dhabi Acrae Algiers Amstordarn Athens Atlanta B. Arres B.ham B.arres B.ham B.argkok Bereciona	Maximum Colsup Sun 30 shower 31 Lar 20 ran 15 shower 24 ran 21 shower 14 thund 33 sun 17	Beijing Belgrade Berlin Bermuda Bornbay Bornbay Brussets Budapest C.hagon Caro Capo Town	fair 10 shower 10 tair 15 rain 12 thund 24 tair 20 sun 33 rain 15 sun 15 sun 15 sun 11 tair 23 rain 11	Coracaa Cardiff Caseblanca, Chicago Cologne Dalcar Dallas Dallas Delhu Duba Dubba Dubba Dubba Dubrovnik Edinburgh	cloudy shower sun rain fair fair fair sun sun shower sun shower
--	--	--	--	---	--



at 12 GMT. Tempe ures maximum for day. Forecasts by Meteo Consult of the Nethe

1	Beijing Belgrade Berlin Bernuda	faur 10 shower 10 fair 15 rain 12 thund 24	Caraças Cardiff Caseblanca, Chicago Cologne	cloudy 32 shower 14 sun 19 rain 18 rain 15	Faro Frankturt Geneva Gitarattar Gilasgow	sun 20 rain 15 tabr 15 sun 19 shower 10	Madrid Malorca Maita Manchester Mantia	sun 18 sun 18 sun 21 showar 12 thuad 30	Rangoon Reykjavik Rio Rome S. Frsco	shower 31 fair -4 fair 26 fair 19 fair 19
	Bogota Bornbay Brussels	tair 20 sun 33 rain 15	Dakar Dallas Delhi	fair 32 fair 25 sun 30	Hamburg Helsinici Hong Kong	rain 14 rain 10 fair 30	Melbourne Mexico City Miami	fair 18 cloudy 25 fair 29	Secul Singapore Stockholm	sun 13 thund 32
	Budapest C.hagen Coro	sun 13 rain 11 tair 23	Dubai Dubkn Dubrovnik	sun 32 shower 11 sun 18	Honolulu Istanbul Jekarta	fair 31 fair 17 shower 32	Milan Montreal Moscow	fair 12 rain 11	Strasbourg Sydney	rain 9 rain 16 rain 17
	Саро Томп	rain 22	Edinburgh	shower 10	Jersey Karachi	shower 15 sun 32	Munich Nairobi	cloudy 5 rain 16 cloudy 27	Tangler Tel Aviv Tokyo	shower 23 fatr 10
	service st	tarts long	before ta	ke-off.	Kuwait L. Angeles Las Paimas	sum 32 sum 19 fair 24	Naples Nassau New York	tair 17 shower 29 cloudy 18	Toronto Vencouver Venice	cloudy 15 cloudy 6 fair 12
	ftha	nca			Lima Lisbon London	cloudy 20 sun 18 shower 15	Nice Niceska Oslo	sun 18 sun 23 rain 4	Vienna Warsaw Washington	tair 11 cloudy 8
	Iula	1152			Luxbourg Lyon Madeira	rain 11 fair 16 fair 22	Paris Perth Pracue	rain 10 thund 26 dezt 13	Wellington Winnipeg Zurich	cloudy 21 cloudy 18 anow 3 cloudy 18

STRENGTHS

IS OUR TOTÁL

....us kineara

Our total commitment starts with our ability to get the basics right. The right people supported by the very lotest technology. At The Royal Bank of Scotland we make the time and take the effort to fully understand your business. Only then are we in a ... pasition to tell you scenately, and confidently have we can best progryour banking an imancing needs. Our people are experiment and forward thinking. Totally dedicated דם האולדיות למילוטין לטיליטיידי דילמנוטראלוגי. זה האסוד, למתואמוניםל הלפלול אהם אס היל הלאל first gauge R you want a difference land of bande with SMC The Royal Bank a whereast kind of approach, try us as 0800 34 35 36. The of Scotland

The Royal Bank of Scotland pic. Registered Office: 34 St. Andrew Square, Edinburgh 6H2 2YB. Regi red in Scotland No. 90312. at by IMRO, SFA and Personal In

مآنامن الأحل

India's Software Industry

Financial Times Review of Information Technology



SPECIAL REPORT

1.7.5. A.

۰<u>۳- -</u>

́.з.

÷.,

÷ .

.

- 4

- - - -

14.44

· • •

 - 2.214 $2 \leq N_{\rm c}$

This second section of the mber 1996 issue of the FT-IT Review examines India's increasing influence in the global software industry. India's software export Industry, worth more than \$1bn a year, has become one of the most dynamic sectors of the Indian economy, fuelled by the demands of offshore client for low-cost, high-quality products and services



There are now more than 700 software companies in India. In the past the year, : 104 companies out of the Fortune 500 outsourced their software development to India - "this clearly shows that companies can derive. competitive advantage through alliances with Indian software companies," writes Mr Dewarg Metha, executive director of the National Association of Software Services. Nasscom (pictured above).

This report was written by, Paul-Taylor, IT Correspond

Production editor: Michael Wittshice.

Exports are surging ahead

India's increasingly confident software industry has a turnover of \$1.2bn, reports Paul Taylor

n little more than a decade. India has estab-lished itself as the leading offshore software devalopment centre for scores of western companies and a ricb source for the skills required to huild the information technology systems of the future. Many Indian software

companies have already forged strong partnerships with thair overseas and domestic customers and proved thamselves able to compete in the global \$400hn software market - not just in terms of price, but on the basis of quality, innovation and technical expertise.

"Indian software companies no longer have to compete on price alone," says Mr Charles Aird, president of HCL Consulting. "We were selling a low cost product, but we don't do that anymore."

His comments reflect the growing confidence among India's software pioneers that they have overcome the credihility hurdle and can now move up the value-chain in terms of both software services and products and compete on equal terms

ers, project managers and software developers in the world. Today, Indian software companies sell their services to an expanding international customer list which now includes Japanese and South Korean clients as well as those from north America and Europe, on the basis of quality, speed, innovation

That this should have been achieved in a developing country still struggling with a wide range of infrastructure and other problems is a remarkable achievement and testament to the determination of the architects of India's software success story

Higblighting this, the industry grew by 61 per cent in the year to March 31, posting total turnover of Rs41.9bn or \$1.2hn, according to India's National Association of Software and Service Companies (Nasscom). Ten years ago, the industry was worth a mere Rs300m or \$10m.

Strong overseas demand, conpled with government support and encouragement for the sector and the liberalisation of the domestic economy since 1991, hslpsd India's softwars exports grow by 64 per cent to Rs25.2bn last year, while the

emerging domestic sector grew by 56 per cent to Rs16.7bn. Overall, between 1990 and 1995 the Indian industry,

which comprises more than 700 companies, grew at a compound rate of 46 per with the best product designcent, almost twice as fast as the US software sector, and now employs at least 140,000 people in India, including almost 100,000 software developers. The Indian software industry is also developing real depth. According to Nasscom more than 160

companies exported more than Rs10m last year and 41 exported more than Rs100m of software and services. and skills as well as price.

Nasscom's executive director

notes, "the software industry is increasingly becoming the driving force in the IT industry.

software exports

"It is ideally suited to India as it demands high skilled manpower; it has no undesirable environmental side effects; It is growing rapidly; and, unlike 'capital intensive and low skilled industries', investment in this industry is not easily displaced."

number of factors bein sxplain India's software success and its ability to outshine rival offshore software development centres including China, the Philippines and eastern Europe.

As Mr Niraj Somaiya, an analyst with Bombay-hased HG Asia, part of the ABN Amro Hoare Govett group, notes, "India scores well above other developing countries on account of having highly skilled manpower and a tremendous improvement in the hardware and As Mr Dewang Mehta, communications infrastruc-

ture which makes it highly cost effective for quality software development." The availability of a buge pool of relatively low-cost, technically qualified soft-

ware professionals, high quality levels and a time zone advantage with both Europe and the US have enabled India to exploit tha rapidly expanding international market for outsourced software services including the expanding market for remote maintenance",

Indeed. India's emergence as an important development centre in the global software industry has coincided with some fundamental changes in the way information technology is used, including the trend away

from mainframe-based computing to client-server computing based on desktop personal computers and inter-networking - an area in which India, traditionally a Unix-based computing environment, has particular strengths.

While these changes have generated strong demand for

skilled computer professionals from the IT industry itself, they have also spurred many end-users to re-write, convert and upgrade their existing software to take advantage of new technologies, such as graphical user interfaces and object-orientated programming.

Since the mid-1980s how-ever, there has been a growing shortage of software engineers in the West, This, coupled with the pronounced trend towards contractingout or "outsourcing" noncore operations among US and European corporations, has been one of the main driving forces hehind the growth of the Indian industry

Last year saw an unprecedented global outsourcing shift towards India," says Mr Dewang Mehta, Nasscom's executive director, "During the year 104 companies out of the Fortune 500 outsourced their software development to India. This clearly hows that companies can derive competitive -advan-

Indian software companies." Equally significantly there has heen a marked shift away from on-site development services or "body-shopping" where work is undertaken at the customers' site, to offshore services. Historically many of the

700 Indian software companies have relied upon providing "body shopping" services for clients such as on-site programming. However, according to Nasscom figures, offshore services accounted for about 40 per cent of total exports last year with on-site services contributing the remaining 60 per cent. In contrast, the percentage share of offshore services in 1990 was a mere nine per cent and on-site ser-

vices accounted for the vast bulk of exports. Thus, an increasing proportion of the industry's revenues are being derived from fixed-price turnkey projects which are undertaken in India, some of which involve hundreds of hours of programming code, undertage through alliances with scoring the industry's tech-

nical and managerial strengths. This shift reflects growing confidence among the software industry's over seas customers, many of whom begin their relationship with Indian developers by insisting on on-site work, but once they feel comfortable about the quality and skill levels, are willing to ship their work offshore - a much more cost effective option. "The industry has much more credibility these

بالاستىنىيە بىلىرىيە بىلىرىيە بىلىرى بالاستىنىيە بىلىرىيە بىلىرىيە بىلىرىيە

المراجع المراجع

India's silicon **citie**

Concentration of tware houses

□ Softw

Kan

Export processing zor

are technology park (STP)

for 1995-96 are estimate

at Rs25.2billion, while

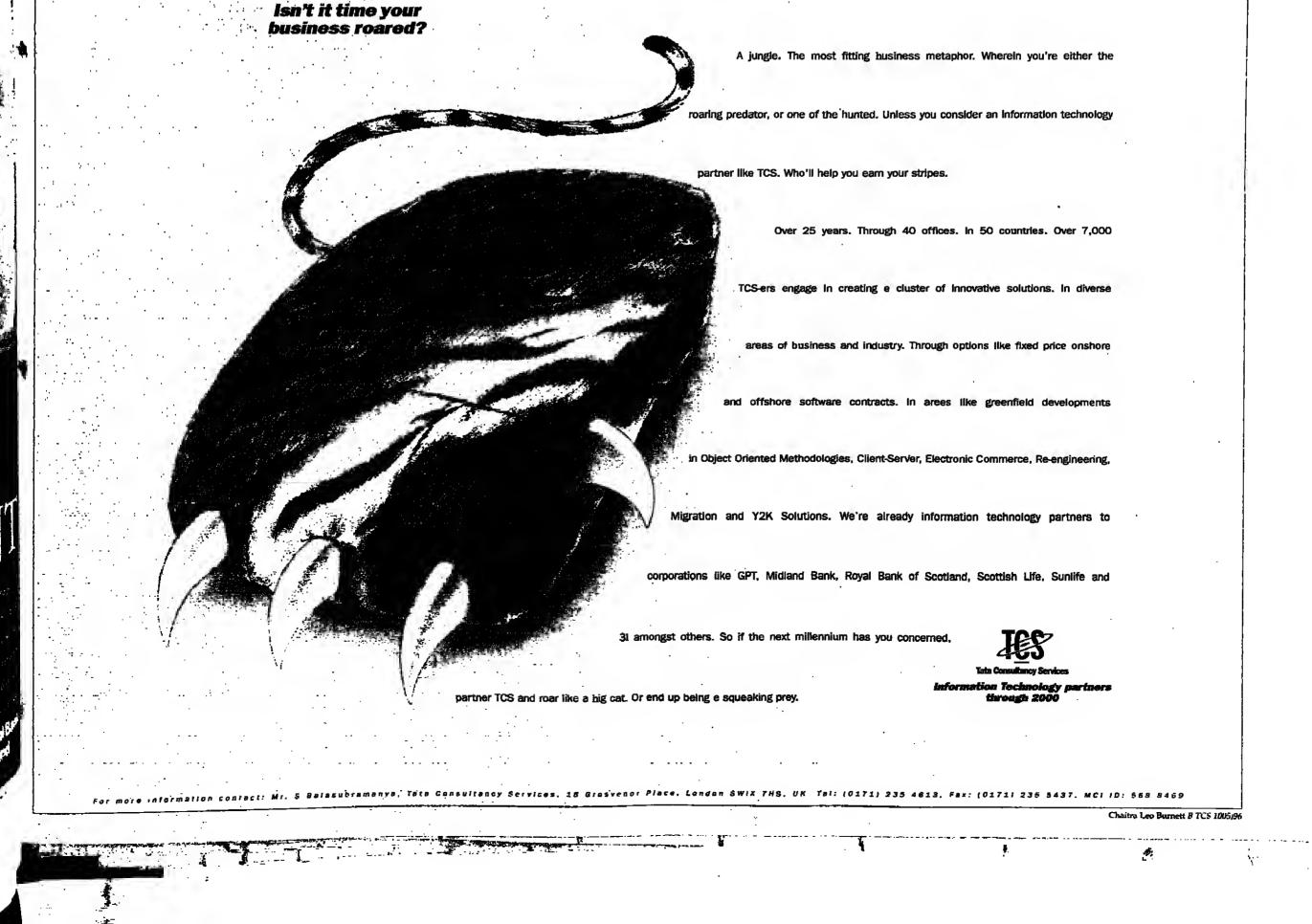
the domestic software

et is valued at

Rs1S.7biltion

days," says Mr Mehta. The move towards offsbore work has been underoiuned by two key factors. First, Indian software companies have adopted quality standards enthusiastically. Forty-one Indian companies already have ISO 9000 certification and another 60 companies are in the process of acquiring certification. "By the year end, we expect more than 80 companies to have achieved ISO 9000 certification," says Mr Mehta. Highlighting the high quality standards that are

Continued on next page



India's software industry

2 FT - 1]

No shortage of entrepreneurs

Continued from page 1

achievable in India, Motorola's Bangalore software facility has obtained the US Software Engineering Institute's level S certification and Citicorp Information Technology Industries own "captive" development obtained SEI level 4 certifica-

tion last year. The leading Indian software companies are also ners or relied on partnership investing heavily in training, and in leading-edge programming ekills such as computer-alded software engineering, fourth generation languages, object-orientated programming, graphical-user interfaces, Java programming and increasingly Internet and electronic commerce technologies.

Second, the telecommunications infrastructure in Indla is heing improved quickly. In particular, Vidssh Sanchar Nigam (VSNL), the international elecommunications carrier, has moved quickly to pro-vide the 64Kbps data links required by software developers to link up with their international clients.

"Currently, there are more than 400 leased lines providing high-speed data communicetions links for offshore software development." sava Mr Mehta. "In 1991 there were only three." Among the leading compa-

international

The domestic Indian

in the shadow of the

dynamic export eector. despite notching up a very respectable compound

growth rate of more than 38

per cent between 1990 and

software market has

grown used to living

IT giants

1995.

India are General Electric, AT&T. International Business Machines, Reebok, Caterpillar. American Airlines, British Aerospace, General Motors and Fulitsu. In some cases, western companies have set up their

operations in India, in others, they have formed joint ventures with Indian partdeals with indigenous Indian

software developers - some of which have pioneered the concept of "virtual laboratories" - development suites dedicated exclusively to a client.

Another important indicator that the Indian software industry is maturing is that more research and development and software design is being done in India.

Among the multinational companies which have Indian operations, serving as software engineering and ing BFL in Bangalore are production centres for their taking the first steps

worldwide operations, are towards developing their Citicorp, ComputerVision, own shrink-wrapped prod-Verifone and Texas Instruments. Significantly this higher Recent additions have risk and more costly devel-

included Oracle, the data-base specialist, Novell, Motoopment work is being undertaken at a time when the Indian industry appears to rola and Siemens all of which have established large be on the threshold of a "Year 2000" or "Millennium and rapidly-growing eoftware engineering subsidbomb" bonanza. iaries in Bangalore, India's Indian software compa-

Indian coftware developers gincering are ideally placed are beginning to invest in to benefit from the billions are beginning to invest in to benefit from the billions R&D and the development of of dollars of work which their own software packages industry experts predict will and services. A handful of flow from the need to rework Indian companies including Tata Consultancy Services, Infosys, Ramco and Mastek have already developed successful software packagesmostly for the domestic market - and others includ-

India has the second largest Englishspeaking scientific manpower pool after the

United States

much older software to deal with the millennium date change. Already many Indian companies have signed partnership deals with western computer services groups and some have already undertaken Year 2000 pilot programmes. India certainly bas no

advantage.

shortage of software entreture problems, particularly preneure and innova-tors - after all, one of the extended daily power cuts and water shortages in softcountry's key competitive advantage has been the sheer size, technical compe-tence and relatively low cost lore, threaten to stall or curof its manpower base. India has the second largest English-speaking scientific manpower pool after the

world software market US, and a eophisticated although, as Mr Ashank Desai, Nasscom's president higher education eystem producing a steady stream of notes, "we still have miles to highly qualified graduates. go. The international oppor-This pool of high-powered tunities as well as the potential in the domestic market but low-cost manpower has belped underpin the rapid are huge. growth of the industry - and particularly exports. But most analysts agree that low costs are unlikely to provide

By the and of the decade, the association is predicting that the industry's revenues will reach \$5bn. By then. a sustainable competitive India may have even produced its own Bill Cates and Microsoft.

sustainable for at least five

more years," said Marlin

Partners in an analysis of

the Indian Industry, pub-

In the longer term, ana lysts argue that India's com-

petitive advantages will

come from ensuring produc-

tivity and quality. However.

the Indian industry also has other hurdles to negotiate if

it is to reach its full poten-

In particular, infrastruc-

ware centres such as Banga-

indicators are positive. The

country's already a force to

be reckoned with in the

Nevertheless, most of the

tail the industry's growth.

tial.

lished earlier this year.

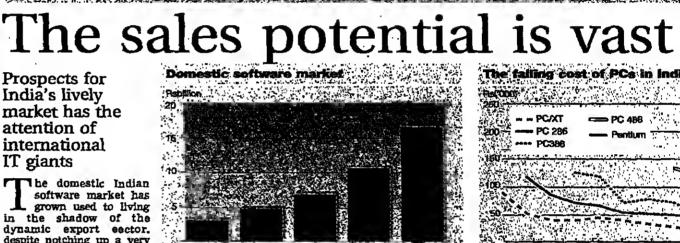
Nevertheless, despite salary increases averaging per-haps 25 per cent over the Exporters' innovation: past 12 months, India is still Indian Software Pavilion in very cost-competitive. London this month; see We see the advantages of details, page 5

India's cheap labour being 🛛 Case studies, page (

"Silicon plateau". nies, with their proven nies which have outsourced nies which have outsourced Similarly, a growing num-software development to ber of the top-tier domestic expertise in software maintenance, migration and re-en-The domestic leaded without a transfer of the state of th

1991-02

domestic eoftware



s. Siemene

Wipro has proved itself as ued partner that has enabled us to deliver meny new products to markets worldwide, on time and within cost, during the last

II

four years.

given below : L.K. Badiga at India, Tel : 91-80-5594174

comprehensive resource base .

over 400 finest trained software

professionals, state-of-the-art

infrastructure and satellite

communication links for instant

access to your office. Our

ISO 9001 certification is further

assurance of our consistent, world

We sure understand

consistent growth rate of

global business. Oor

over 80% proves one thing : we

he falling cost	of PCs in India
CODO	
PC/XT	- PC 486
PC 286	- Pentium
0 ··· ·	
and the set of the set	100 1 100 00 00 00 00

Binares Complant Holes

behind the recent surge in successful partnership with cing a bonanza for big re- marketing game, he also

WITH A LITTLE HELP FROM A FRIEND

Becoming an inherent part of your business is how Wipro Systems sees itself. A partner, a software provider, a friend. Here's what Wipro can offer you :

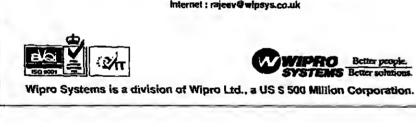
HOW DO YOU

STAY AHEAD

IN BUSINESS?

- Dedicated offshore development center Millennium conversion
- Legacy system maintenance
- Migration of your existing system to
- new technologies Application developm
- You get cost and time advantages : Over 1800 designers
- 18(64 KB) satellite links and growing
- And reliability that's world renowned : Ask any of our high profile clients around the world like Nestle, Midland Bank, Bristol and
- West, Casio, Nortel, IBM, Allied Signals, Mitsubishi, GE and Sony. For more details on how we can work
- logether califax our offices at the number

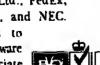
Internet : (kb@wipsys.sofLnet OR V.S. Rajeev at London,Tel : 44 171 2226866 Fax : 44 171 9760336. Internet : rajeev@wlpsys.co.uk





Timeless Values in a Borderless World.

It is indeed a matter of great pride that some of the most revered names in the world chose BFL Software as their partners. We are talking of names like Astra AB. Bertling GmbH. Compaq Computer Corporation, Complex Software Systeme, Comsharc Ltd., FedEx, Hyundai Electronics, and NEC.



class quality. They count on us to deliver world class software solutions. And appreciate our quicker response times and innovative problem

solving methods. have made a positive difference to Located in Bangalore, the Silicon our customers' businesses. We can Valley of India, BFL Software has a do it for you too.



Vп

U.S. Office : No 220, Kingsley Road, Hounston, Middlesen, TWS 4AR, U.K. Tel : 0181-572 2612 Fax : 0181-737 8593 Headquarters : Gopalkrishna Complex, 45.3. Residenty Road, Bangiaore 560 025. India Tel : 91-80-558 \$722 Fax : 91-80-558 1918 email : achivers@uranium.bfl.soft.net Offices at : Sunayrale, C4, US Tel : 408-730 8334; Housson, TX, US Tel . 713-370 5005; Sangapore Tel : 55-321 8950

signs that the tide could be including a sharp reduction turning as Indian industry in import duties on software and commerce begin to down to a uniform 10 per invest heavily in informacent tion technology to ensure

that they can compete in the liberalised domestic market and overseas.

Two years ago, the growth rate in the domestic market exceeded export growth for the first time and last year domestic software sales grew by 57 per cent, only just behind the spectacular 64 and Aptech. per cent gain posted hy

exports.

According to National Association of Software and Services Companies figures, domestic software sales - excluding software developed in-house - increased to Rs16.7hn in 1995/96 from Rs10.7bn the year before.

"One of the major reasons for increase in demand in domestic market has been the increasing maturity of end-user organisations as well as initiatives taken hy

Nasscom and Department of Electronics in curbing soft ware piracy," saye Mr Novell, Oracle and SAP, the Asbank Desai, Nasscom'e Carman manufacturing president. But there are also resource planning specialist number of other reasons

Coupled with rapidly growing personal sales, computer penetration - albeit SIS. from a low base - and a marked shift towards pack-

aged software, these factors have produced a surge of interest in the domestic market and a boom in IT training for companies like NIIT

Multinationals

The growth and enormous potential of the domestic IT market has already caught the attention of companies like Microsoft, the world'e largest software company, which has huilt up a nationwide network of dealerships to sell its products and is undertaking a wide range of "market development" activ-

ities. Other multinationals targeting the growing Indian domestic market include which has formed a highly

Systems, part of the Siemens group. "Virtually all the large multinationals in India are customers for SAP's R/3 package," says Mr P Venkatram, general manager of

Information

Prominant local companies in the Indian market include Tata Consultancy Services, Wipro, CMC. Onward Novell, Sonata, Tata Unisys, Rolta and Mastek.

While services and turnkey projects still account for a large proportion of the overall domestic IT market, abroad. packed software is claiming a growing share. Sales of packages totalled about

R\$73m, or around 45 per cent of the overall market. Among the fastest growing

market eegments are the manufacturing, financial services and government fields. Sales of relational database management systems increased by 50 per cant, sales of financial accounting packages donhled and net-

working product sales grew by 90 per cent. Overall, Nasscom reckons

122 new software packages were launched hy overseas companies last year - produ-

Wipro. However, domestic packaged software vendors have also performed well. According to Nasscom, 104 new products from indigenous software suppliers were launched last year. The leading domestic packaged softare developers include Infosys whose rapidly expanding product portfolio includes the Nancs 2000 banking package and D-Maps, a distributed mapping packages which has also been sold successfully

Competition

'Our biggest challenge today is how to recruit. train and retain the best and the brightest software professionals because there is tremendous competition for manpower," says Mr N.R. Narayana Murthy, Infosys' chairman and managing

While he helieves Indian software companies are unlikely to be able to compete against western companies such as Microsoft in the shrink-wrapped software market, which is largely a explode.

in large niche markets. Other successful indigenous software package developers include Bombay-based Mastek whose products include the Mamis enterprise resource planning package together with life insurance and securitles industry offerings, and Madras-based Ramco whos ERP package has won crif. cal acclaim and competehead-to-head with SAP.

Companies like Infosy Mastek, Ramco and othe: have proved that domesti Indian software developer. can build innovative. leadin. edge business software packages and their succese is likely to encourage others to follow.

Today there are about 390 active companies in the domestic software market compared with just 10 five years ago. While their recent growth has been impressive. the potential remains enor

mous. Foreign and domest. software vendors bay barely began to scratch th surface of a buge industria commercial and retail ma, ket which appears poised t



and the second second second second second All Contraction

FINANCIAL TIMES WEDNESDAY NOVEMBER 6 1996

India's software industry

Software exports

Cherry and

Rebillion

Smillion

Strength grows in technical skills

More than 140,000 technicians in India work on contracts for overseas clients, offering advantages in Cost-savings and quality of software

industry has become one with a sample of seven comof the most dynamic sectors of the Indian economy, fuelled by the demands of Philippines, China, Hungary offshore clients for low-cost, bigb-quality products and services.

"Low manpower costs, a euccessful track record and easier global reach are driv-ing Indie'a software exports, which have grown-some 50 per cent annually over the last five years and are expected to maintain the momentum," saye Mr Aditya Srimath, an industry analyst with Bombay-based brokers SS Kantilal Ishwarlal Securi-

A few years ago, the World

19.---

···· ** ··! ** ···

ود معن

· in size

1

•••••

21 21 ¥

- 14 - 111 - 3, 1617 678

17 A 140

Vast

India's software export Bank study compared India a software development cenpeting countries including Ireland, Israel, Singapore, and Mexico. When compa-nies were asked to rate their preference for providing software and eervices. India came top of the list. Among the reasons cited

by clients were the cost and quality advantage of the Indian industry, India's strong technical skills, parttcularly in leading edge technologies, and infrastructure considerations such as data communications links and the establishment of Software Technology Parks.

tre for multinationals include income tax exemptions and other governmentsponsored incentives for exporters, the full convert-ibility of the rupes and the growth of the domestic market fuelled by economic liberalisation.

Typically software exports for a developing country like India move through at least three distinct phases:

• Exporting cheap labour overseas or "body shopping". This enables companies to build credibility with potential clients, and while margins in exporting cheap programmers may be low by India's other attractions as international standards, low

and belps huild the local infrastructure. Some compenies have established "software factories" or units dedicated exclusively to a single client. These high security units ensure confidentiality for

long term partners and operate as extensions to in-house development teams. Satellite communications remove distance as an obstacle to doing

ware products for export overseas. This is the highest margin businese in the global software industry and longer term goal of many companies. However, this husiness requires more initial investment and is much more risky than contract work Snccessful products require good market understanding and befty marketing expenses which often negate any salary advan-

undertaking contract work - this is the "bread and hutter" of the industry, hut most are expanding their offshore work and some have begun to produce niche products for the global market.

Significantly, the proportion of work undertaken for customers offshore rather than on-site is growing rapidly, reflecting the growing confidence of big multinationals in the ability of to deliver high quality prod- puters.

Indian software industry, are 25.2 indigenous companies, while others - such as BaeHAL. HCL Hewlett-Packard, and Tata Information Systems - a joint venture between Tata and IBM - are joint ventures between domestic enterprises and western companies. third group which

comprises companies such as Citicorp Information Technology Industries, Texas Instruments, Motorola and Siemens Information Systems - and most of the more recently established software exporters are wholly-owned subsid-iaries of multinationals, and they use their Indian bases as software sonrcing and Among this last group, a

Some, such as TCS, the

established leader in the

growing number of the lead-ers of the global 1T industry Indian companies ere also including TL, Motorole, Oraundertaking more challenging work for their overseas cle and Novell have established research and develop-In some cases, they are ment centres in India which are responsible for products or services on a worldwide hasis. For example, Texas Instrument's Bangalore facility is designing complex semiconductor devices for the US electronics group.

Novell's fast-expanding Indian development centre specielises in three key areas, network services for Unix, network file systems

"We have worldwide responsibility for these areas and operate as a logical extension of product teams in the US," says Mr Vikram Shah, managing director. Weetern computer coftware and services companies like Origin, a Philips subsidiary, have established e rapidly growing presence in India to help service both domestic and international

others have signed software licensing deals with Indian companies. Other companies like Britain's Logica are building close partnerships with Indian companies. Logica has teamed up with HCL-Consulting for mainframe migration work and with Synectics, an innovative

300 branches. Bangalore-based BFL Software - recently appointed Compaq Computer's "Partner of the Year" - have developed shrink-wrapped software packages which are

FT - I T

111

З

IT multinationals in India Revenue Partners/tie-uns in India 5,780, HOL, HP, HP India, EGR., Gadrai, HPISO, PCL, 18T, CMS, Zenth, Asdington THP. 3,560 TISL, Zenth, CMS, ITC, Nexus, Microland, ECIL, Sonala 2 IBM 3 ACER 3,200 Mipro-Acer 2,700 Microland, HCL, HP, Godrej 4 INTEL 2,990 DEL 5 Dipited 2,000 Microland, Unicorp. FiL, Tangerine, 6 Compac Minicomp, CMC, Crompton Greaves 1,700 Wepro, FiL 7 9un 8 Microsoft 1,120 TUL, Sonata, Godrej, Datapro 9 Apple 1,100 Wipro, unicorp, Odin, Tangarine 10 Citizen 810 TVSE 11 Silcon Graphics 750 Teta Ebusi, DCM DS. 12 Deli 658 PCL, ESPL, Rolta TS Novel 640. Orward Novel: 14 AST 639 PCS, AMD, Tangenine 15 Ofwett SIS Madi Olivetti 526 TCS, Hexaware 18 Oracle 17 Eppon Ser Wpro 18 Mictorola 500 Motorola ISG 18 Tulp . 400 STullo India 20 Texas Instrume 375 Texas Instruments India -380 Ramoo, Microland TUL, HCL Comnet Libloorp, Datacraft ICIM 21 Bey Networks 22 Intergraph 348 Roita 307 TUL 23. Uninys 24 Cisco 270 Wipro Microland, Digital, Datacraft, ICIM 200 HOPE, Neil Automation 25 Autodesi 250 Meistar, HCL Comnet, PCL. 26 . 3Com Modi Olivetti, Godrej 27 Panesonic 191 Godrel 1. 28 Sybase 180 NILT 175 Wipro, Advantec 29 UB Network 30 Tandem 172 Wipro 31 SDAC 127 Total Ebd, Onward 32 Ventone 103 Verifone India 33 Mult Tech 95.5 Abuit Tech India 34 informiy 94.5 Silverline 35 Cadence 81.1 Cadance India, Wipro 36 PTC 66.5 PTC India 37 Cylink 65.0 Makaster 38 Ingres 63.0 Mastek S9 QAD 24.5

generation banking product then re-hadged and sold by called Quaestor which has recently been sold to Arab their overseas clients. The success of this sector Bank, the largest bank in is reflected in the annual fig-Jordan and one of the main ures which Nasscom has prefinancial institutions in the pared. According to the asso-Middle East with more than ciation, the Indian software export industry grossed revenues of Rs25.2hn last year, Meanwhile, some indigenous Indian companies like

40 Integrated Systems18.6 ~ .

up from Rs15.35bn in 1994/95. Equally importantly, the industry has become an important foreign exchange earner. Last year the soft-

Continued on next page

ing, however. A significant indication of this trend is that the top 25 exporters now account for 73 per cent of overall export revenues. Among the leading compa-Today, most Indian soft- nies identified hy Nasscom ware exporters are still are Tata Consultancy Services which helped to shape this industry in its early years, the fast growing HCL clients, and at the same time group which is aiming to hecome India's first IT multinational, Wipro, Pentafour Software, the recently restructured Tata Unisys (in which Unisys has sold its 50 per cent stake to the Tata group), Silverline Industries, Infosys Technologies, Fujitsu-ICIM, Square-D Softwere, Patni Computer Bangalore-based start .up Indian-software companies · Systems and Satyam .Comwhich has developed a next-

India's top software exporters Growth 1994.05 1995.06 business To Had been an est the function of the second strategy of the best 2700.0 rine in the second s Sen: 81 ICIM LC 640.0 10 Patri Computer Systems - Abreact Martin - Abreact - Article - A 14 Manuaria art Lucou Ver de Branches and an Antonio State and a second second second second second second second 16 I Lasanze Tollow I Lease Strates - Charles - Strates - Laster -22. Chi / h Alka we h / h Indoor/ name is book at 194.6 Synamic Million 2210

30 Pres Sologen automatical and a second state of the Constant of the second state of the second s

IIS offers top quality project software services in the most cost-effective manner to a demanding international clientele. With IIS Infotech Ltd., one

1993-04 1004-85 1995-98 1991-82 1992-93 manpower costs mean that ucts and services on time. Indian exporters can still Offshore software developachieve healthy profits. ment work now accounts for • Using cheap labour to about 40 per cent of the total

provide offshore services in the home country. This type compared with less than 10 per cent et the start of the of contract or project-based decade. work eliminates costly travel Instead of being limited to supplying basic data entry and "code-bashing" services,

clients or parents.

designing, huilding and supporting products on a global basis. According to the Nas-scom - excluding one-man operations - there are more

than 360 significant participants involved in software exports. Together, they · Building packaged softture.

employ about 140,000 technical people but vary dramatically in size and in strucand storage management W bile the Indian industry continues to expand, a clear "first division" tier is emerg-

REAPING

THE

BENEFITS OF

SOFTWARE

of India's top IT organisations, we offer clients an unrivalled package of benefits.

· IIS assures work to internationally recognised standards

With over 10 years of proven delivery to blue chip customers, many of our projects ere repeat business. IIS has ISO9001/TickIT accreditation end our development centre in Delhi was the first Indian company to echieve this.

· IIS can halve your IT development costs

We use our own excellent offshore resources for cost-effective IT development. In addition to CompuServe end Internet, our 400 developers are connected to clients' machines vie satellite as appropriate.

IIS offers strong Project Management

Our global experience enables us to take on conventional and RAD projects, large end small, on e range of technical platforms. We are equally comfortable working on a T&M or Fixed Price basis.

· Satisfied IIS clients can be found in most UK sector

IIS has prestigious clients in most sectors: finance, utilities, automotive, lelecom, manufacturing, retail and services to name e few.

IIS is at the forefront of technology OFFSHORE

The projects we have undertaken range from legacy systems to the latest technology including Client Server, GUI, OO, Visual Computing, Multi-Media, and Geometric Modelling. We invest heavily in R&D and training end have a number of development and migration tools. .01.

A Unique Solution for the Year 2000

The IIS2000 Project Services comprising . IS2000 Planning Services and IS2000 Conversion Services are based on IIS' own methodology using either third-party tools or the purpose-built IIS2000 Toolkit.



IIS plc is a UK company

Through its own large sales and technical infrastructure, IIS pic understands the needs of the UK market and works closely with its UK clients. All work we do is under UK law and we work both in the UK or offshore, depending on project requirements.

· IIS operates worldwide DEVELOPMENT

ALL AND A DESCRIPTION OF A

......

in addition to the UK and India, IIS-bas operations in the US, Mexico, the Netherlands, Singapore and South Africa.

For further details, please contact: Uman Bewtra, Managing Director IIS pic, Langley Business Pan, Waterside Drive, Langley, Berks, SL3 6EZ, UK

Tel +44 1753 735500, Fax +44 1753 735501 E-mail 100417.1614@compuserve.com, URL http://www.isinc.com

International Informatics Solutions plc. Leading 5 new world in software devel

BAeHAL Software ...

 a joint venture between British Aerospace and Hindustan Aeronautics.

 an ISO9000 quality assured software services company providing bespoke development, conversion and maintenance.

 high quality offshore personnel combined with a dedicated satellite link enable BAeHAL to provide these services offering exceptional value for money.

BAeHAL Software, York House, Farnborough Aerospace Centre, GU14 6YU Tel: 01252 382020 Fax: 01252 382380 Email: sj.baker@bae.co.uk

4 FT - 1 7

FINANCIAL TIMES WEDNESDAY NOVEMBER 6 1996

India's software industry

nt centre in Bangalore - India's main 'silicon city

BFL Software

An accolade-winner

tions

tive.

BFL Software may be one of India's youngest software start-ups having been founded in 1993, but it is also one of the fastest-growing and most dynamic and last month won an accolade from Compaq Computer. one of its main offshore clients.

The quoted company, part of the Calcutta based Bangur Foundatioo, has two development centers in Banga-lore, India's Silicon City (a single campus called BFL Township is under construc-tion 20 kilometers outside the city), and overseas offices in the US and Singapore. Last year the group, which now employs over 410 software professionals and 40 managers, reported turnover of \$7m, a figure expected to grow to \$13.5m in the

current year, BFL's employees are divided into six technology groups, the systems group which specialises in operating systems utilities, device drivers and test suite development; the networking group; the re-engiocering group which provides downsizlog services, migration services and Year 2000 solution: the database and client/

Mindware

International Ltd

is the UK subsidiary of

server group; the Tandem group and a new unit called the current and emerging technologies group which bandles Wlodows projects. object orientated design and programming, multimedia and Internet bosted applicaquarters Among the group's main

customers are Astra, the Swedisb pharmaceuticals group, the Central bank of Nigeria, and Comshare. BFL has also set up a dedicated development centre for FedEx Logistics, built a video-conferencing system for Hyundai Electronics of Korea, and developed PC software packages for Micro-help the US-based PC software group whose products rate of around 12 per cent about half the industry averinclude 'Zip It.' BFL is considering alterna-

tive strategies for developing The group has also set up its own shrink-wrapped a special unit to deal with products business - perhaps Year 2000 projects and comin conjunction with marketpleted three pilot projects for three US-based Year 2000 ing partners. "As a first step we have signed an agree. customers in the financial ment with Microbslp to market their products in India." says Mr B V Veokatesh, president and chief execu-

The group's relationship with Compaq began two and

a half years ago when BFL Shiv Nadar, HCL's charismatic chairman, has set his sights on turning the set up a dedicated unit for the world's largest PC manufacturer staffed by 70 software engineers - there are another 15 BFL employees in Compaq's Houston beaddecade.

Among the services pro-vided for Compag, BFL maintains the US computer group's World Wide Web site in Java and has been asked to develop Internet software for the company, "These are leading-edge projects and give a great deal of satisfaction to software developers." partnerships. notes Mr B G Balakrishna, head of the group's interoational operations. Reflecting this BFL bas an attrition

data products division.

was set up by Nadar and five colleagues to manufacture ers. Since then, however, the a broad-based IT conglomerate with global ambitions.



[3] A. C. Martin and M. Martin and M. Martin and M. S. M Santin and M. S. Martin and M. S. Martin and M. S. Martin and M. Martin and M. Martin and M. S. Mar

leaders in their fields - and a string of important international joint ventures and Nadar. now aged 50, epit-

omises India's new bread of IT entrepreneurs. He moved to Delhi from his native Tamil Nadu in 1968 to work as an electrical engineer for DCM, an Indian conglomerate, where he rose to become marketing manager of the

Hindustan Computers Ltd office products such as copigroup has mushroomed into Among HCL's main busi-

Fax: 0181 956 2245

India's largest IT organisation gramme, has grown rapidly into the india's premier IT

The

BackOffice software.

Shiv Nadar, HCL's chairman, epitomises India's new bread of IT s. HCL Hewlett-Packard employs over 7,500 people

Hewlett-Packard company elsewhere and develops softand HCL Frontline, market leaders in India's fast growware for overseas clients including Sun Microsystems, ing computer hardware busi-Sears, Robebuck & Co and ness, NIIT, one of the coun-IBM. try's leading IT training Overall, about 77 per cent

companies, and HCL Con-sulting which undertakes of the group's revenues come from computers and softon-sita and offshore software ware - its hardware offerdevelopment projects for ings range from high powcustomers around the globe ered servers down to its and ranks as a top-ten soft-Busy Bee range of home perware exporter in its own sonal computers, priced from just Rs 20.000.

programmes in the US and nomic liberalisatioo pro-

HCL Hewlett-Packard, a Aside from running more than 150 training centres joint venture formed in the they will. As HCL's chairacross India, NITT also devel- early 1990s after the Indian ops and sells educational government began the eco- of aggressiveness that runs

with just 14 companies in

this category five years ago.

vious year, on revenues company, announced a new which increased to Rs5.2bn strategic alliance with Tata from Rs3.52hn. Consultancy Services under

Tata Consultancy Services . New partnership with Microsoft

What TCS' founders realwhich the Bombay-based ised long before most others group will provide software in India, was that technology development, consultancy was going to determine the and value-added services for way government and husi-Microsoft's Windows NT ness functioned. "It was very operating aystem and its simple, it was not complicated at all." says Mr Faqir The partnership - the lat-Kohli, TCS deputy chairman, est in a string of alliances a modest man who began with international partners

using IBM computers in 1961 is a tribute to TCS, India'a when he was at the Tata largest software company group and is now often and the one which perhaps referred to ss being the more than any other, has helped establish India's rep-'father' of the Indian software industry. Since then, TCS has grown utation for quality software development and services.

to employ more than 6,200 group, which was software professionals and has probably trained more founded in 1969, reported pre-tax profits of Rs1.29m in

region," says Mr Nadar,

care and manufacturing."

in 15 countries, "We realised

early on that we needed to

globalise the business," says

man notes: "There is a kind

migration services.

Strategic alliance Eight weeks ago. Microsoft, the year to March 31 com- than 10,000 others, many of the world's largest software pared with Rs1.01bn the pre- whom now run other Indian software companies.

pectre O

From the outset, TCS recognised that its future lay in software and IT consultancy services, but it needed to acquire technology skills if it was to deliver software products and services to the domestic market. "That is where our vshture in exports started," says Mr Kohli.

One of the groop's first domestic projects was in banking. "We worked with a bank and discovered they were in arrears by months and years, we cut the areas to about two or three weeks. we couldn't reduce the arrears any further because the entries were still coming by the post, there was no networking then."

Subsequently TCS installed the system in 49 banks in India, "we learned about re-usability long before anyone else." The first overseas work

that TCS did was for Burroughs, taking a hospital management system and organisation and the group, converting it from one platform to another. "It was which employs more than 7,500 people - more than worth \$35,000, but we didn't half in software and customhave a Burroughs machine, so we wrote the code for an er-services engineering - has also heen hroadening its ICL machine and then develproduct portfolio and geooped a filter from ICL to Burroughs."

graphic reach through a Ever since then, TCS has prided itself on being one series of recently announced joint ventures with General Instrument in cable TV step abead of its rivals with equipment; Deluxe, a leader new technologies - for example, it is investing heavily in internet technoloin the US integrated payment systems market; James Martin for Year 2000 solugies.

Mr Kohli insists that the tions; and Perot Systems in focus of tha group will computer services and outremain software. Currently exports account for just over sourcing, which will focus on opportunities in the Asia Pacific region. 80 per cent of revenues and "There are a myriad busigrew at 48 per cent last year ness opportunities in the IT to Rs4.2bn while domestic area in the Asia Pacific earnings grew by 88 per cent to Rs939m. Over half the "We 'expect continued growth and modernisation in export revenues come from onsite projects, and the US finance and banking, utilimarket accounts for about 50

ties, energy, telecommunicapercent of total exports. TCS is also strong in the tions, transportation, healthpackaged software segment, Other allies include Microboth as a distributor for Orasoft and Britain's Logica cle, Avalon, Lotus, Unigrawhich HCL-Consulting has phics, and SAS and with its teamed up with to provide own products including E.X. RTwo, Soccess Planned!, and Outside india, the group has an established presence ISBS, a banking package

now installed at 500 sites. The group has recently signed a licensing agreemeot with Britain's Business Objects group which plans to sell a new banking package

Mr Nidar. ... Will Mr Nadar and HCL developed by TCS in the international markets. realise their objectives? Most analysts have no doubts that

implementation

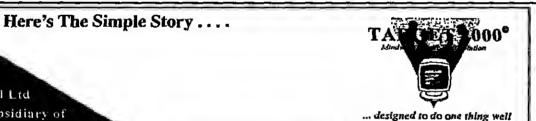
The Indian group has also renewed its partnership with IBM's Lotus unit for Notes

INDINOT

COME

3SE

1.11



services sector. In total, the group bas undertaken more than 75 projects in 10 countries over the past three ears and intends to continue to grow, albelt at a manageable pace. oesses are the flagship HCL

Pertech Computers Ltd - an ISO 9003 certified - innovative systems integrator - with over 3500 systems professionals - operating globally in - USA, Europe, South Africa.



Asia and the Pacific Rim - offering a broad spectrum of

services - Year 2000 Conversion, Applications Development, Legacy Maintenance, Software Labs, Software Products - cost

effectively and in accelerated time frames - minimising your expenses

and maximising your Return on Investment - Sharing the risks and rewards of long-term partnerships A unique philosophy ...

For concise, readable comment you can trust, you need

India Business Intelligence

Every 2 weeks, with a minimum of waffle,

this readily accessible and quickly absorbed subscription newsletter provides;

- · interpretation of the political and economic situation in India and what the upheavals mean in practice
- succinct assessments of the stockmarket so you can make informed decisions
- business news and comment on every sector

For a FREE sample copy, contact Cella Jenkins by fax on 44(0)1978 780013 or phone on 44(0) 1978 780764



FINANCIAL TIMES Newsletters & Management Reports Maple House, 149 Tottenham Court Road, London WIP 9LL

Financial Times

Software exports . A key earner of foreign exchange in India's economy

highly diverse sector Rs10m of software compared,

Continued from page 3

right.

export industry ware Mindware International Limited, 500 ("hiswick High Road, London, #4 SRG brought in foreign exchange earnings of \$734m and, as Mr Dewang Mehta, exscutive Tel: 0181 956 2244 director of Nasscom, notes, "has emerged as one of the highest net foreign exchange earners in the Indian economy" indigenous indian compa-

nies, led by industry veterans such as TCS, IIS Infotech and PCL Mindware, are also expanding their international presence, setting up offices in the US, Britain, continental Europe and now in Asia and the Far East for example Square D has set up a Japanese sales office and has a team of Japanes speakers in its Madras facilities dedicated to translating

project work. While the main objective of these overseas offices is to win new husiness and build relationships with offshore clients, at least one Indian company, ION Information Technologies, has taken a different approach setting up ing it." a team of project managers and aoftware engineers in the Thames valley, "to ensure project man and cootrol is retained in the UK to reflect customer demand'

In other words, software exports to the US grew by The Indian software export almost 60 per cent. ndustry is also extremely "This quantum of software diverse - in terms of size, exports to the US was possiskill sets and geography. ble due to successful lobby-Last year, more than 160 companies exported over ing efforts by Nasscom in

ار دی موجود می در محمود در در از این می اور این مرکز می از این می از ای

Similarly, the number of have been in the vanguard Indian companias with software development opporhigh-speed 64Kbps satellite datacommunication links tunities that india presents, a key requirement for under-

European and Japanese comtaking volume offshore work panies are beginning to real-- has mushroomed from just ise that outsourcing to India five companies, four years can help them maintain ago, to more than 250 today, their competitive edge, accel-As Mr Iain Allison of Bomerate time to market and bay-based Marlin Partners reduce costs.

Among the recent new noted in a recent report on the sector: "American corpoentrants, UK-based financial rates have been the main services groups are showing employers of this industry particular interest in India. and have been highly influ-For example, Churchill entlal in determining its Insurance, one of the UK's leading direct motor and home insurers, established a shape and the nature of its software development subsidiary in india earlier this year. The new unit will Communications

"Improvements in the teleundertake software developcom infrastructure have meant that the United States ment work in an Oracle Unix environment, and provide consultancy services to Profit margins and other developed markets are on india's doorstep and its parent and other group not on the other side of the companies in the specialist globe. No other Indian indusfields of very large databases, performance tuning, try has these factors favourhardware sizing and configu-In terms of markets, the ration.

US continnes to top the list. According to Nasscom, India Nasscom has recently launched Phase II of Project Niesa (Nasscom's India-Euexported software worth rope Software Alliance) to Rs14.5bn to the US last year. establish joint ventures and strategic alliances between companies in India and the European Union. Within 15

months of the launch of the initial phase, 11 joint ventures between Indian and partially solving visa and European companies were

-, --

related issues," claims Mr set up. Looking ahead, most Mehta. analysts believe the pros-But while US companies pects for India's software exporters remain good. With in terms of exploiting the relatively low software davelopment costs and 100 per cent income tax exemption on software exports, the sector has also been very profitable so far.

Both operating margins and return on capital employed have averaged about 30 per cent across the sector, according to SSKI Securities, making the sector's leaders attractive

investments. Nevertheless, there is a growing acceptance that although India'a cost advantages will reduce over time. For this reason, most Indian software exportars are looking to move further up the value chain.

The current export mix has been likened to a commodity business - standardised software packages, the most profitable segment of the software market, only account for 10 per cent of Indian software exports.

"With increased competition and higher costs, margins will fall over time," says of Mr Srinath of SSKI Securities. To offset this, he - like most analysts believes Indian companies will need to develop prod-

ucts to sustain growth in the long term.

Sourcery Or, how you can source the magic of Indian software resources. Square D. Your partner of choice. \$30m investment 800 people, 20 blue chip partners, ISO 9000. Affordable prices. No products. No business consultants. No loss of focus. We do what we're good at. And leave you to do what you're good at.

For further information please contact JP Rangaswami, Director, Marketing Square D Europe PLC 4-5 Technology Transfer Centre Silwood Park Ascot Berkshire SL5 7PW Phone (0) 1344 291242 Fax (0) 1344 291837 E-Mail 101512.3645@Compuserve.com Mobile (0)468 394663



ather indust

÷ . .

. . . .

÷ • #•,

1.75 July

• • • • • • •

inite par

FINANCIAL TIMES WEDNESDAY NOVEMBER 6 1996

For Indian software com-

panies, rich in relatively low

cost skilled manpower and

with a proven track record

in software migration and

re-engineering, tha millen-

nium problem could prove to

Already most of the lead-

ing offshore software devel-

opment companies have set

up dedicated Year 2000 units

and some have signed part-

nership deals with US and

European tool vendors, com-

"Some external eervica

providers are moving ahead

to further relationships with

various offshore coftware

vandors, particularly in

India, to ensure they have

the resources to put against

puter services organisations

and consultancies.

Resources

be a bonanza.

India's software industry

The Year 2006 problem . Providing solutions calld prove to be a bonanza for India's software industry Spectre of the millennium

ple."

Association of Software and

Services Companies. "Many

Fortunes await the software companies with the resources available to deal with the so-called 'millennium bomb'

The "Year 2000 prob- already at risk. lem" or the "Millennium Bomb" threatens to disrupt information technology systems throughout the world - systems based on two-digit date fields and unable to deal with the date change on January 1 2000 unless huge sums are spent to correct the problem. Researchers at the Gartner

Group have estimated that it could cost an astonishing \$600bn to address the millennium problem, but time, or rather the lack of it, could pose an evan greater challange. What is more, the human resources needed to qnantify, plan and execute software changes are already in short supply.

Gartner has estimated that 90 per cent of business applications, if not corrected will fail by 1999 and 20 per cent, comprising applications such as long term eureties or insurance policies, are analysts in a report pub- series of seminars - the first

lished in July. "The recently announced joint venture Luxembourg. between HCL and James However, so However, some of tha lead-

Martin is one such examing Indian software companies are already warning "The millenninm bug that prices for Year 2000 conmeans tremendous opportutract work are rising from a nities for Indian software base rate of around 25 cents companies," says Mr or 30 cents per line of code. Dewang Mehta, executive "We are under increasing pressure to sign fixed price deals," says one senior director of the National

Indian companies have already taken this challenge Cost-savings

Indian Year 2000 expert.

and see it as a major oppor-Among Indian companies tunity and have specialised in providing solutions, not with dedicated Year 2000 only through products, but programmes, the HCL also through customised Group'a joint venture with software development capa-bilities." James Martin, the US-based service provider, combines Nasscom believes Indian what Gartner describes as "the leading redevelopment and Year 2000 solutions software companies could harvest at least \$5bn of miland lennium work and has methodology" (The Systems formed a special interest Redevelopment Methodology) with HCL's "software group on Year 2000 issnes factories" aimed at reducing comprising more than 50 Indian software companies

project tima and cutting project costs. Nearly 3,200 of HCL's 9,000 which either have tools or are providing solutions for the problem. As part of its consultants and developers efforts to bring Year 2000 to could be involved in the this issue," noted Gartner India, Nasscom is holding a joint venture and by using HCL's the methodology and

one took place last month in leveraging existing project management skills in both parent companies, HCL James Martin should be able to execute between 30 and 40 Year 2000 projects concurrently, according to Mr Ashok Jain, chief executive of HCL James Martin. "The cost-savings for these

projacts, if conducted offshore, will range from 30 per cent to 60 per cent less than competitive offerings that do not include offshore services," say the Gartner analysts.

Among other leading Indian companies offering Year 2000 services, Delhibased IIS Infotech (see report, page 6) has developed a packaged solution called IIS 2000 which comprises a pro-prietary methodology and tools to provide a comprehensive solution to the century date change problem. Currently, the company has a team of 18 working on

the project, a number which Mr Saurabh Srivastava, IIS managing director, expects to rise to abont 1S0.

Continued on page 6

the software industry. Significantly, the Associa-

tion'e mission statement did not mention 'Indian' industry, and the association has ambraced and campaigned for free trade ever since.

which has grown to over 400 and represents 96 per cent of the revenues of the industry. not only includes all the largest Indian software companies, but also most of the multinationals involved in the Indian industry.

"We do not distinguish between companies owned by Indians, owned by a mul-tinational or owned by anybody else," says Mr Dewang Mehta, (see picture, page one), who became Nasscom's executive director in 1991. "We do not believe in protectionism, and we have a very global outlook - that has been one of the reasons for our success in establishing ties with various other associations in other countries," ba says. "Wa do not

in imports: it is a two-way The association was

in US cities by eight or nine Indian software company chief executives in associa-

that it was important to would keep on doing these

the Foreign Office - have a wealth of experience and are ready to help. We must not let the exciting opportunity of developing Indian markets pass us by.

tions fail in their mission becanse they fragment and lose sight of their objectives, or cling to protectionist arguments tion. But for the Delhi-based National Association of Software and Service Companies (Nasscom), the mission has remained clear - to act as a catalyst for the growth of

to make its policies "more software-friendly". mainly in the areas of tariffs, taxes and public procurement. Second. to market the Indian software industry both in India and overseas and third, to campaign against piracy. In the first two areas in

particular, Nasscom bas been remarkably successful. The industry has won tax concessions for exports and import duties on software have been reduced dramatically - from 270 per cent in 1988 to 10 per cent today. "We believe if we cannot compete with the global software industry in our own country, then we should close down," says Mr Mebta. Nasscom was also instrumental in encouraging the establishment of India's 10 believe in only exports, for example. We believe equally software technology parka where small and mediumoperatione quickly. The

formed in New Delhi in July 1988 although its origins date back to 1987, and the first software seminars held

tion with the Department of "The department officers and the chief executives felt

have an organisation which activities and more importantly, an association where they could share their experiences."

The association had three main objectives. First, to nar programme presented lobby the Indian government by Indian companies.



India's software industry has a global ontlook

Profile • National Association of Software and Service Companies

A very clear objective

Association has also lobbied successfully overseas, particularly in the US over visa and other issues. Under Mr Mebta's ener-

المراجع المحيية المحتي

FT - 1 T

getic leadership, the association has also extended its marketing activities holding about 15 seminars a year in Europe, Japan, Australia, South Africa and the US.

Since 1991 the associatioo has also held domestic exhibitions culminating this year in Bombay where a football stadium was converted into the largest software exhibition in the Asia/Pacific region attended by about 300.000 visitors.

Next month, Nasscom will hold an even larger exhibition in Delhi, together with the Comdex fair organisers. Dubbed 'the IT India 96 Comdex', the exhibition is aimed, "at raising the awareness of sized companies can set up software in our own country".

SoftDev 96' in London

Indian Software Pavilion

new initiative at SoftDev'96 at London's being held on November 27 Olympia this month will be the Indian Software Pavilion, sponsored by the Financial Times. This event brings together some of systems, the Internet and India's leading software development companies. Mr Dewang Mehta, executive director of Nasscom, will bring the keynote speech for a two-day semi-

For SoftDev detoils, call Jon Howell of Interactive Group, 44 (0)181 541 5040: the e-mail address is: softworld@softinfo.com

expertise. I particularly wanted to find ont more about the international corporations established in Bangalore. where much of new software development takes place.

Economic Forum in Delbi in October, I saw an ideal profile business delegation mercial life familiar to Brit-

presence in this exciting market. There is no doubt

how British companies could share expertise and how we could .co-operate for mutual . tion to address the World benefit. India is an obvious partner for British companies - our shared history opportunity to lead a high makes much in Indian com-

and Hindustan Aeronautics. Established in 1993, this company concentrates on realtime software including gramme.

In the wider development of successful international co-operative ventures, western partners will look

I was glad to see included

in my programme a call on

BAe-HAL, a joint venture

between British Aerospace

Government for open and liberalised markets. In the 1990s, India has grown twice as fast in the software sector as the US did in the 1980s. A compounded growth of more than 40 per

impressive \$1bn, with half of production devoted to While growth in the software sector can be expected

to continue, India still has a good way to go before her communications infrastructure is the equal the Asia average. Around £30bn to £40bn of investment is needed to install the further s0-60m telephone lines

needed to reach five per cent of the population.

nies find out more about the dynamic software sector? I asked to hear more about 3SE, an Indian company established two years ago,

cent is exciting. The value of out of a venture between the industry is now an European Union and the European Union and the Indian government - a mission to promote co-operation traffic.' in software between European and Indian companies. achieved through match making from its exhaustive database and helping new

entrants to the market to pick their way through the minefield of regulations and licensing requirements. I am in no doubt that Brit-Electronics.

ish companies must look more closely at opportunities in the Indian software mar-The UK's Department of Trade and Industry - and

This year's SoftDev event and 28, takes place alongside WebDev 96. The two events focns on software development for corporate the World Wide Web and includes three higb-level conferences and exhibitions.

Year 2000, Mainframe Migrations, Client/Server, Imaging & Workflow, Multimedia, Education and Training?

E Guest column . UK Science Marsler ian Taylor Many opportunities for joint ventures

There is no India's 'Silicon Valley' to ish business explore how British compa- I was glas doubt that India nies could enhance their has a huge fund of scientific and educational expertise'

s UK Minister for Science and Technology, I am well aware of India's emergence as a world class supplier in the global information industry. My visit last year helped pave the way to an agreement on closer science and technology links between our two

countries. When I accepted an invita-

that India has a huge fund of scientific and educational

Expertise

I also wanted to discover

increasingly to the Indian

applications for air traffic management and runs a database for British Airways' Frequent Flyer pro-

Co-operation How can British compa-

any trade associain the face of rising competi-

Nasscom'a membership

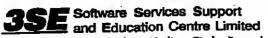
IT'S NOT IF YOU WILL COME TO INDIA

Taday, with a high growth software industry, India is the destination of chaice for international arganisations. Both as a market and a source far quolity products and services.

3SE hos been established by the European Cammission and the Government of India to promote cooperation between the European Union and India in the field of computer software.

With a dedicated team of IT professionals familiar with international and Indian software markets, 3SE works with you to formulate on India strategy, identify Indion partners, and to establish your operations in India. To market your products and services in, or to outsource them from, India.

Several companies in Austrio, Belgium, Germany, Itoly, the Netherlands, Sweden and the United Kingdom have used 3SE's services to their advantage. Isn't it time you too leveraged the Indian saftware industry to become glabally competitive? Coll 3SE. Today.



Diamond Jubilee Commercial Complex, 8th Floor, Hudson Circle, Bangalore-560 027, India Tel: 91.80.2211143 Fax: 91-80.2211152. e-mail: support @ 3sebir.soft.net, URL: http://www.3sebir.soft.net

Glaxo Wellcome, ABB, Credit Suisse First Boston, Oracle, Silicon Graphics, Cambridge Technology Partners, and Hewlett-Packard!!

Who are we?

The best way of introducing HCL Europe would be to present our capabilities and customers.

HCL Corporation, whom we are a part of, is South Asia's largest IT corporation. It employs over 7000 professionals and has an annual turnover in excess of £425m.

What do we do?

We work with customers and strategic partners in Europe to implement a variety of IT salutians through aur 2500 person strong software factories in India.

These factories are equipped with a variety of hardware, software tools and electronic links to major customers. This enables us to participate right from scoping to implementation to maintenance of applications.

In addition, we provide education and training at various levels and stages of IT implementation. Computer Based Training (CBT) programs developed by us are in use at leading corporations world-wide.

Quality is an ongoing pursuit with us. No wonder we have received ISO 9001 certification for many of our businesses including software development and education and training by BVQI in the UK.

How can you benefit?

The Netherlands

We can assist you in becoming more competitive, more responsive and go global.

Lower costs, shorter development and implementation timeframes are a natural!

Germany

What is the Global Advantage?

Our strong global presence from Japan to Asia Pacific through to the US; and from Sweden to New Zealand, helps us implement solutions rapidly and robustly.

Are we a Vendor or a Partner?

Our customers across the globe have established long term partnerships going well beyond being a software services vendor to them. We integrate into the value chain of their businesses.

So, if you would like to work with a company that is global, has a growing European presence and can deliver a strong India advantage, call us. Together, we can give your competition a run for their money.

Yes, we are interested in working with HCL I	Europe
My Name:	
My Designation:	
Organisation:	
Address:	
Telephone:	
Fax:	
Areas of Interest;	
Mail or fax this coupon to:	

HCL Europe Ltd., 6th Floor, Westfields, London Road, High Wycombe, Buckinghamshire, UK-HP11 1HP Tel: +441494-539333 Fax: +44-1494-539444



United Kingdom

A member of the HCL Corporation

UAE

France

Sweden

VI.

FINANCIAL TIMES WEDNESDAY NOVEMBER 6 1996

India's software industry

6 FT - I T

Software piracy

A call for tougher measures

the illegal trade.

Despite recent measures to curb sales in illegal software, piracy is endemic

t the bottom of Brigade Road, one of the favourite hangouts of Bangalore's young and rapidly growing population of software programmers, are four small shops, each not much larger than a US-style walk-in cupboard.

Bangalore is the centre of big sellers. Next door, Bri-India's expanding offshore gade Computer is selling a software development industry - yet, even bere, software piracy thrives. Each of the four shops sells CD- India in spite of valiant Roms packed full with attempts by the National pirated copies of the latest games and business applications software from leading companies including Micro- ernment to crack down on

Bombay-based group,

is no longer mere manage-

PCS points to its relation-

sbip with Avis Europe,

Europe's largest car bire firm, as an example of how

large multinational compa-

nies are responding to

changed competitive envi-

ronments by building alli-

Since the fall of the Berlin

ances and partnerships.

ment jargon.

soft Novell, Symantec Lotus and Adobe. Most of the pirated software appears to have originated in China. Rs 1,500 buys 'Solid Gold, Vol 5', a disc with 50 software titles on it, including most of Microsoft's applications, software development and

PCS and Avis . Example of an international partnership

an important component of

its strategy. In particular, to keep pace with business ini-

tiatives, Avis needed to beef

In order to achieve this, Avis selected PCL, India's

30th largest software group,

as a partner in 1994 and now

views the Indian group as virtually an extension of its

To meet the Avis require-

up its IT support.

own IT operations.

lobalisation, says European markets. It saw

PCS Industries, the information technology as

industry lost about \$75m through software piracy last operating system proyear. However, while most grammes from The Comindustry executives agree puter Shop. that piracy rates are declin-Judging by the sleeves. ing, most also contend that software development packpiracy is endemic, at least ages, including the latest in some market segments. Java development kits, are

💙 maller companies, first time computer users and some software beta version of the Encyclopedia Britannica for Rs 800. Similar stores exist over among those who use pirated software, particu-larly application tools and Association of Software and system software. "I would estimate that for Service Companies (Nasscom) and the Indian govevery one package of software legally bought, there 6,000 calls. Following a

network

must he ahout nine instances of piracy," Mr L C Surveys hy independent agencies suggest that Singh senior vice president of Tata Consultancy Serbetween 60 per cent and 70 per cent of computer users vices told the Economic Times newspaper. Neverthein India use some pirated software. And a report by less, Nasscom, which spear-Nasscom estimated that the headed the campaign against software piracy, has made some beadway. Last year, India's new Copyright Act - acknowledged to be one of the toughest in the world - came into effect. The legislation includes a new computer software piracy offence punishable with a prison sentence and

heavy fines. Nasscom has also set up developers themselves are an anti-piracy botline which provides information on the legal use of softwara and investigates reports of suspected incidents of piracy. In the first 15 months, the hotline received more than

series of raids, facilitated by the Business Software Alli ance and Nasscom, several high-profile court cases have resulted in prison sentences for the pirates. At the same time, the

gradual reduction of import duties on imported software - duties now stand at 10 per cent - has helped make legal software more affordable, although Indians still complain that the cost of imported software is still about 25 or 30 per cent more than abroad.

While software piracy is seen as mainly affecting imported packages at preent, it could also stifle the eventual growth of a domes tic packaged software industry. In order to address this issue, most industry executives believe more effective enforcement of the curren laws may be necessary.

ComputerVision . Case study in software pioneening

Expanding operations Diego, California. It is linked

The time

round-the-clock engineering is

possible

ComputerVision. the US computer-aided design (Cad) software group, is expanding lts operations in India by moving into a brand new state-of-the-art development facility in Pune which will

difference means

terVision's only R&D centre open early next year. The US group has pio-neered an architecture called outside of the US, will employ 300 software developers and will be fully inteelectronic product definition grated with centres in Bed-(EPD) which redefines the consumer goods, ford, Massachusetts and San wav

engines, cars, ships and air-craft will be designed in the twenty-first century. EPD aims to replace

integrated series of applica-

tions running on a variety of

platforms and enterprise-

The Pune facility, Compu-

via a 128Kb backbone net-work to the Bedford and San Diego facilities, as well as the group's sales and service expensive time-consuming operations around the world. prototyping methods with an Tha time difference between US and India means that round-the-clock engineering is possibla, thereby wida data manegement improving productivity by a

substantial margin. The group's international customers include Fiat, Peugeot, BMW, Mercedes-Benz, Rolls-Royce, Lucas Aerospace, the Rover group, British Telecom, Lockheed Martin and customers in India like TVS Suzuki and Godrej GE Appliances.

ava po ocrac topen

5

i Fil

Χ.,

 \mathbf{y}^{μ}

τ. 41

 \sim

 S^{2}

I.

22

::

 $\mathbf{1}$

φ.

. . . A

· 🖽 '

Rolta India . Award winner in CAD software

A winner abroad

tract.

Contract

based application model

management environment

(Framme) software along

with consulting and CAD

Intergraph, in turn, has

awarded a contract to Rolta

to provide the CAD conver-

sion services which include

creation of a digital data

basa from 30,000 paper and

mylar documents into their

integrated banking software

suite in 1995 by one London-

based trade magazine.

Framme environment.

Conversion Services.

systems.

US links

The company now ranks among the world's top conversion

vendors

Bombay-based Rolta India has carved out a niche in India as a cad/cam (computer aided design/computer and demonstration software aided manufacturing) spefor exhibitions. More generally, PCS claims the partnercialist and has won a num ber of prestigious contracts ship has enabled Avis to deliver a quick response to including what it claims is the largest software services its own customers and meet its own business objectives. export order.

"With a resourceful off-The company which works sbore partner, Avis can now closely with both Intergraph and AT&T in the US and concentrate on its core busi-Rolta International, its US ness and compete more effectively in the marketplace,' snbsidiary, recently won a says PCS, which has also set Rs1bn contract to provide AM/FM and CAD Conversion up a Triton customisation Service for the Saudi Aracenter for Baan, the Dutch bian posts, telegraphs and telecommunications ministry.

Instead of having to search AT&T was awarded a \$4bn contract to install an addithrough a filing cabinet for tional 1.5m telaphone lines,

effectively doubling the size will enable engineers in the subscription and business of the axiating Saudi teleoffices of Saudi Telecom to communications network. In addition 200,000 cellular teleaccess digital records and phone lines will also be proquickly determine the avail-able resources. In the past, vided under the main conthey had to rely on paper-hased records. The project will also include 40,000 build-

ing drawings. This contract is to be com-Intargraph bava been awarded a contract by AT&T pleted in a period of 5 years and execution has already to provide workstations running Microsoft Windows NT, begun 14 servers and facilities rule-

With this order, following closely on the heels of a Rs80m order from Hong Kong Telecom, Rolta bas been firmly established in the world of CAD Conversion Services and now ranks among the top conversion vendors the world." says Mr Kamal K. Singh, chairman and managing director.

In total, Rolta International has won orders worth more than Rs1.2bn from various telephone and power utilities in US. Middle East, information, the new system Far East and New Zealand.

up local support centres in

MicroBanker is currently in its release 9.2 version and

the product has huilt-in

interfaces to CITIL's other

str overseas countries.

'The millennium bomb'

Big opportunity

Wall. Avis has expanded rap-idly to establish a presence and high quality, PCS has

in the emerging eastern set up an offshore develop-

Continued from page 5:

Although IIS already bas its own Year 2000 tools, the group has also announced a partnership with Vlasoft, one of the leading US-based tool vendors. "We are happy to work with any tool-provider as contractors or subcontractors," says Mr Srivastava.

Like other Indian software companies, IIS sees the Year 2000 problems as an opportunity to grow the business and form new customer contacts. But Mr Srivastava also warms that those companies 2000 solution without a Year

to be scanned." He likeps the problem to a "massive maintenance project" - some-

thing Infosys and many other Indian companies are very familiar with. Infosys has defined a three-part Year 2000 package comprising Identification of ware suppliers. the problem, correction using automated tools as far as possible and testing. Infosys has already completed projects involving between 4m and 5m lines of

code for two companies and has several other deals in the pipeline. for help. Like many other Indian ftware c

lop exporter

huilt around a Sun Sparc server, which is connected 60 man-years of effort. through a 64Kbps satellite link into the Avis wide area work undertaken, the PCS team has dalivered software

enhancements to support new business initiatives, Support team adapted software to comply PCS began hy sending anewith specific country laws, provided national language lysis to Avis to learn about its husiness. At the same time, it set up the Bombay aupport, migrated software "front-ends" and provided facility for the offshore sup-Avis with quick prototyping and pre-sales support. Among specific projects

The company has broadened its product offerings and relationships from modest beginnings

Along with many other large six years ago to execute off-

companies, Britain's North shore projects. Today, the group has a West Water was cautious and conservative in its 128Kbps link to the UK and a 64Kbps satellite link to the approach to choosing soft-US where it has a geometric But the task the water modeling joint venture. Its other main specialities include migration work and re-engineering softwars applications for clients rangutility faced in upgrading and enhancing the compa-ny's works management system and other operations was immense. North West ing from Merrill Lynch to tberefore decided that it Abbey National and Reuters. The group's UK-based subwould have to look offshore

sidiary ranks as one of tha two leading suppliers of offbore software services and has established a track After a detailed and comrecord for delivering euccessprebensive search and ful projects since 1985. review in 1992. North West Like many other Indian chose IIS Infotech, a well-eseoftware companies, the relationship of IIS with its tablished Delhi-based group which employs about 400 big overseas clients often begins in a relatively modest software professionals and is way. For example, from being a sub-contractor to among the top 20 Indian soft-US was the first Indian North West's consultants software company to obtain doing basic coding work, IIS 1SO9001/TickIT certification now has the status of a prime contractor executing in 1992 and the first to use high-speed data links over turnkey projects.

"It has been a very good relationship," says Mr Saur-abh Srivastava, IIS managing director. More generally he says the work with North West and other large overseas customers has helped the group "reach critical mass...now we have the infrastructure and the size to hid for the higger projects." be says, "we have shifted our vision."

Joint ventures In particular, IIS

products.

CITIL ... Producer of MicroBanker software packages

Initiative pays off was rated as the top-selling . In addition, CITIL has set

Banks in 35 countries have installed the company's

software services market.

one pioneering company

took the bold initiative of

venturing into the packaged

In total, 62 banks spread throughout 35 countries have installed the package software packages In the early 1990s when

a significant success for a "Made in India" software almost the whola of the package. Indian software industry was concentrating on the

seas branches.

support.

software products. These includa MoneyMaker, a dealing room package, and Fin-ware for retail banking, plus a customer access system New customers and an electronic hanking Among the recent customsolution for corporate cus ers for the product are HDFC

tomers. ·), The Indian group believes

port team. Today, a team of 30 professionals support a enterprise resource planning wide range of development PCS has developed a self specialist. IIS Infotech . Delhi-based software specialist Successful track record

East meets West to mutual benefit quotation module for Avis ment centre in Bombay needs for Avis. Over the past equipped with a PC network two years the company estimates it has delivered over Among the projects and

e de la seconda de la secon

could find their existing business squeezad as their overseas customers switch spending to urgeot millennium work. In Bangalore, Infosys,

another leading Indian software group, already has 100 people working on Year 2000 projects. "This is not really a complex problem," says Mr D.N. Prahlad, senior vice president, "but this is a management problem because of the volume of code that has is a Saturday."

plans to use the addition revenues generated by its Year 2000 work to fund an expanded research and development programme and extend its pusb into higher value added products and services. Time may be running ont to sign up with India's leadware exporters. ing offshore service companies for Year 2000 services, but at least as Mr Prahlad quips, "we have an extra two days because January 1 2000

expanding geographically, setting up a company in the US, a joint venture in Holland and buying a 50 per cent stake in a Singapore vanture - its first investment east of India. The aim, says Mr Srivastava, is to be truly global. IIS is also broadening its product offerings, including setting up a unit to deal with Year 2000 MKI. projects and also plans to

software vertical market. CITIL, the Bombay-based software development company, owned hy Citicorp, launched the first version of lts MicroBanker software in 1991 targeting the international banking community and competing directly with established vendors such as Britain's ACT Kindle and

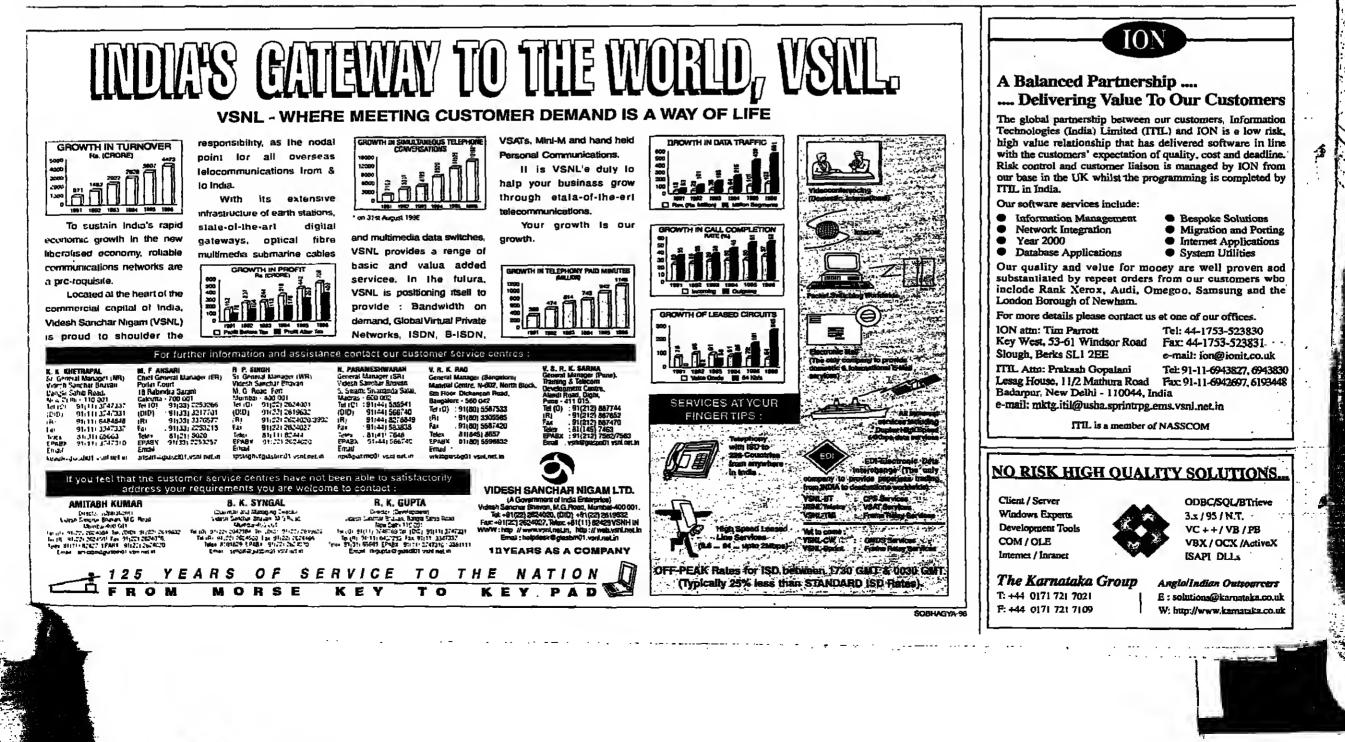
Over the past five years design and build its own MicroBanker has achieved an enviable reputation and

using the package in 18 of its its commitment to continubranches. Another customer is the

Bank in Bombay, which is

ous improvement in the software engineering process Finance Bank of Zambia, has played a pivotal role in which chose MicroBanker Its success in delivering high quality packaged products for its 35-branch network in Zambia, and its three overand services.

The company has adopted The product is backed by the capability maturity CITIL's Bangalore facility model of software engineerwbare enhancements are ing and recently achieved carried out and where world-Level 4 certification, placing wide customers can receive it among the top two per 24-bour, seven-days-a-week cent of the world's software companies.









New directions Corporate intranets: **Business benefits** Pages 11-13

Software solutions Sales and marketing systems: It's arow - or die Pages 14-17

Information Technology

The topic in the IT initiatry Java poised to crack it open

Researchers say that new Java software 'is at the epicentre of a seismic shift in the \$650bn global computer industry Paul Taylor examines the claims,

Dony-tailed programmers and operating system, so that developers computer 'nerds' are getting can create programmes which can rim programming language - named after a type of gournet coffee bean - which promises to unleash their creativity and liven-up network computing in general, and the Internet and corporate

ration.

Oad

s of

. .:

lower the cost of desktop computing and improve their efficiency and competitiveness.

According to a recent study completed by Forrester Research, more than 60 per cent of top US companies are experimenting with Java and over 40 per cent have already decided that it

oped by in 1990 by James Gosling, a tor and Microsoft's Internet Explorer, programmer at Sun Microsystems, the This means that every computer run-US-based workstation, vehicle, where this a modern web browser is already machines supply most of this comput. Java enabled, ing power behind the World Wide Wab. Programmers initially demonstrated

excited over a new computer. on any computer. This means that programmers, can focus on developing applications once only, and then distribute the application to anyone no matter what computer or operating system they are using. Sun's Java achieves this alchemy in

general, and the Internet and Corporate intranets in particular. But perhaps more surprisingly, Som Microsystem's Java software has also caught tha public's imagination and fired up the enthusiasm of big business customers who are betting that it will puter must be running a separate process known as the Java virtual machine. This is another small software programme that reads the byte code and translates it into instructions the computer and operating system can understand.

Java virtual machines are available will become crucial to their Internet for most operating systems and are computing strategy within a year. already incorporated into most of the So what is all the excitement about?...main web browser packages including Java is a programming language devel. the latest versions of Netscape Naviga-

Originally called 'Oak', it, was the simplicity and interactive potential intended as a control programme ion of Java by building so called Java guage to be used in domestic products applets, small software applications such as set top boxes and video record- such as revolving corporate logos or ers and was therefore designed to be ticker tapes, into Web documents - see compact and easy to develop. "Java is. buzzword explanations, above, right.



Java buzzwords and benefits

Corporate benefits inclu

 Lower desktop support costs. Enables the use of older 'legacy'

desktop equipment.

Single-user interface.

Widespread industry support. Potential for low-cost network

computers. Unified development language Centralised application menagement.

Duka, tha lively Java 'mascot' shown above, symbolises the software's ability to make the Internet and corporate intranets more dynamic, accessible and usertriendly.

Java buzzwords:

Java: a platform-independent programming language. S Java virtual machine: a small programma which translates Java byte code into computer instructions. Java Applets: small Java programmes, Java beans: a framework or architecture into which a programmer can 'plug in' components. Hot Java: Sun Microsystem's Java-enabled web browser. Java chips: semiconductors designed to nut Java programmes at lightning speed.

munications devices - may well be Java-powered and several telecom equipment companies, including Canada's Northern Talecom, have announced plans for Java-enabled tele-phones which will also enabla users to access the Internet and corporate intranets from a telephone handset.

Almost all the leading participants in the emerging Internet software market

fully 'buzzword-compliant'," jokes Martyn Lambert, director of the network computing sales group at Sun in the UK.

"It is a simple object-orientated, dis-tributed, interpreted, rohust, secure, architecture nautral, portabla, highperformance, multi-threaded and dynamic language." That may help explain Java's popularity among fashion conscious programmers who are rushing to learn the language and join Java developmant teams, but what really makes Java special and important to businesses is that it is truly "platform independent". Currently, if a programmer wants to

develop a new application (software programme), it has to be written for a specific combination of computer hardware and operating system, for exam-ple, an application developed for a Windows-based machine will not work on a Unix workstation. That means that if a corporate in-housa software develop-ment team wants all computers to be able to run a particular application, a separate version has to be developed for each operating system.

Java is designed to break the fixed links between the application and the

Cost-savings in desktop computing

While many people dismissed these early appliets as insignificant, the full implications of Java and Java programming are only just beginning to be recognised. For example, Java applets can pro-

vide a type of 'just-in-time' computing. Instead of installing huge programs every time they need a new function, computer users can download an applet across a network, such as the Internet. Java's advocates also believe that it

will beln cut the soaring costs of desktop computing. For example, Dun & Bradstreet has built a Java applet that will lat employees issue a purchasa request to a corporate server without having a full-blown purchasing pro-gram installed on their personal computers. Other software developers have created Java applets that let Wab browsers view corporate databases and mainframe applications.

But the main savings are expected to come from reduced maintenance and upgrading costs - most estimates sug-

Jave offers cost-saving benefits across a wide spectrum of computing applications, ranging from on and finance to manufacturing and education. Many companies see Java as crucial to their Internet strategies

gest the initial purchase price of a personal computer only represents a frac-tion of the total cost of ownership which may be as high as \$8,000 a year. Instead of having to visit every PC on a network in order to upgrade software or fix a software bug, a Java-based application can simply be replaced or upgraded centrally and is immediately accessible to all tha desktop users.

This model has particular appeal for service organisations such as telecommunications companies, information distributors and financial services providers. Reflecting this, some of tha early

adopters of Java technology in the UK include British Telecommunications, Reuters and NatWest bank. BT, for example, has developed a

Java-driven data visualisation application which takes data on the volume of telephone calls across the UK and transforms it into a graphical format. Meanwhile, NatWest has developed an online banking package using Java

which will be offered to its small business customers along with a browser to access the service.

Charlie Herbert, manager of Nat-West's new delivery channel unit, says Java has helped ease concerns about customer support and security. "I control the software and I can change it or fix bugs 'on the hoof'," be says.

Java's potential is not bowever lim-ited to desktop machines. The next generation of personal digital assis-tants ~ hand-held computer and com-

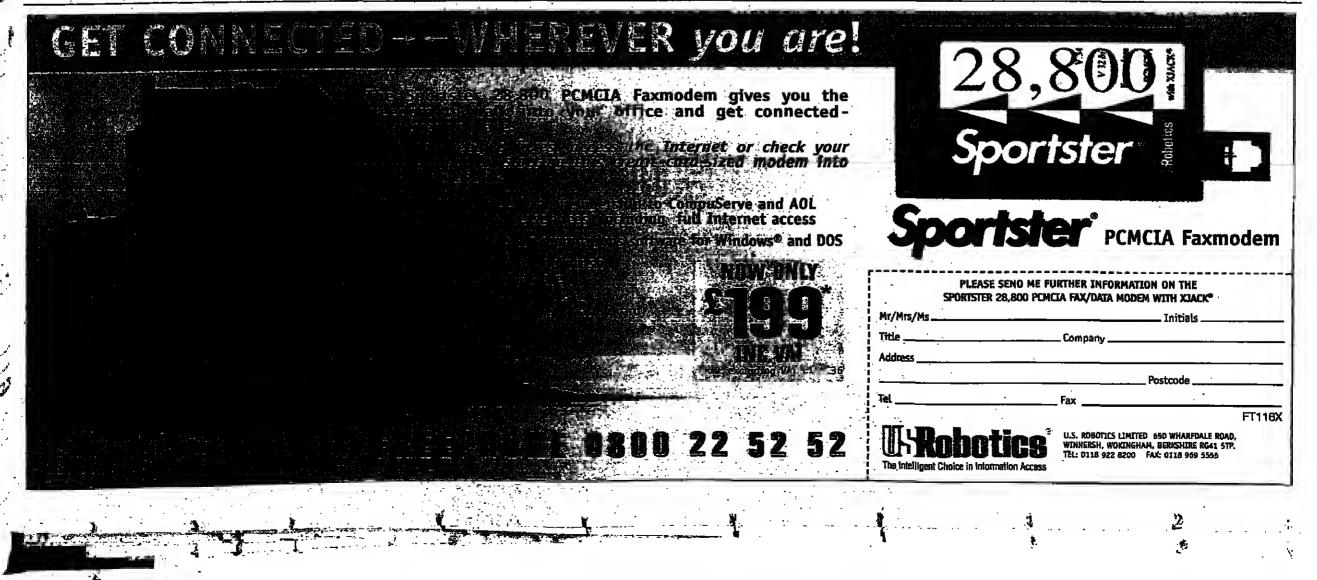
have agreed to support the Java language - even though it only became fully available in February this year. Among them, International Business Machines in particular is moving rapidly to incorporate Java in its range of computer platforms and has estab-lished its Java Technology Centre at its Hursley laboratory in the UK.

"IBM is putting Java on all of its computer platforms including OS/2, AIX, AS/400 and mainframe MVS, says Simon Phipps who is in charge of IBM's Java development work. "Java makes it possible once again for a business to leverage its size by deploying enterprise-wide solutions."

But not everyone is so enthusiastic. Although Microsoft has also licensed Java, Charles Fitzgerald, who is in charge of Microsoft's ActiveX technology, has noted, "Java is not a cure for cancer, it doesn't repeal the laws of gravity - and there's a lot of things you can't do with it".

Earlier this year, the Gartner Group also gava some reasons for caution. Gartner argued that Java was a young and immature language, that there

Continued on back page



View from the top



evaluate and adjust your strategy

I Interview with Joe Tucci of Wang Laboratories . By Paul Taylor

An open approach to business a storage problem, ao we

Wang, the one-time office automation leader, has reinvented itself as a part of a new management team three years ago. Wang was in the middle of a services and software supplier

Tang Labs' word-pro-cessors were syn-turnover grew rapidly from onymous with \$300m and to almost \$3bn in office automation in the late 1970s and early 1980s before the personal computer revolution swept them off tha desktop and plunged the Massachusetts-based group Tucci. into huge losses and a Chapter 11 bankruptcy filing in adapt to the rise of open

systems and Unix, but the But now Wang - under company also failed to Joe Tucci, chief executive ensure quickly enough that since 1993 - has emerged its systems could work with from Chapter 11 and reinequipment from other indusvented itself as an indepentry leaders like Digital dent computer services sup-Equipment and International plier and one of the fastest Business Machines. In addigrowing vandors of worktion, rather than forging distribution agreements with other companies. Wang built flow, integrated imaging and document management softup a huge internal sales-

Looking beck, Tucci ecknowledges that "in the force. "In the heyday there were early 1980s, Wang was the well over 3,000 sales reps and they did very little partner-ing," says Tucci. "Open for standard for word-processing office eutomation, and most large enterprises, whether me means the open systems government or private buslpiece, the interoperability ness, standardised on Wang piece and being open to both for office autometion work with others, and I think Wang failed on all and e-mail

Initially. Wang's strategy. three accounts. When Tucci took over as based on proprietary tech-

restructuring process designad to refocus the group on two growth areas. Since the late 1980s most of Wang's systems had been 1986. "It was incredibly rapid working in open system and growth." saya Tucci. But client/server environments Wang also made mistakes. "I and therefore the group had ecquired skills and expertise think the biggest failure was the failure to open up," says not only installing and main-

taining its own systems, but Not only did Wang fail to ' in integrating them into heterogeneous local area networks

."We had worldwide capability in building these sort of Lans, so we decided to build on this," says Tucci. "Secondly Wang had pioneered imaging, workflow, and document management technologies so we started re-writing those for the open environment and made that our second busine

Wang today is basically two businesses, e services business and a software business. Wa run them quite independently. Each one has its own sales force, its own R&D, its own financial staffs. Looking forward, Tucci

expects the services business to report revenues of about \$1.5bn in the year from Sep-

year to more than \$100m.

"We believe we have got on the wave early," says the Wang chief executive. "We saw the network centric world coming and we designed more what they call light clients which positioned us very well for the Internet and network computting phenomenon."

Tang has also formed a close strategic partnership with Microsoft (which has invested \$90m in Wang's preferred stock) and was an early adopter and advocate of Windows NT.

"In the network computing world our vision is to be a leader in natwork and desktop outsourcing." says Tucci. "The CEOs of companies struggle every day with the increasing costs of client-server, or network centric computing and there seems to be a worldwide trend to focus more and more on core competencias. That means companies are ontsourcing big pieces of their IT. Our biggest problem now

is hiring and training people," he says. Among the services Wang provides for its

tember, and the software customers are services pro-side to grow from \$50m last curement, systems design

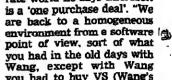
management product." and implementation, and asset management. Most companies, he says, still do not know whether they have one year, two year, or three year guarantees on hardware, what the guarantee on software is, or what rights have e very substantial investment in Unix but we they heve to software updates. All of that is part of have really invested to be the leaders in NT in this warranty and asset management Meanwhile, he says, "a lot space

"I think the office of the of companies are using legfuture will be Microsoft acy systems". For example based," he says. In the corpomany companies have installed Lotus cc: Mail or rate world he says Microsoft Microsoft Mail for messaging. But, says Tucci, "they want to be on (Microsoft) Exchanga and the Mapi messaging systems of the future. That move is not trivial, so we try to focus on the infrastructure rather than the specific solution". Tucci also emphasises the importance of partnerships. Many of our partners are

the EDSs. Computer Sci-ences or Cep Gemini's bacausa even those large companies do not have the skills in this space and they would tend to subcontract their outsourcing activies to commanies like ours which are highly specialised." Similarly Wang also pro-vides multivendor platform support services for compa-

nies like Sun Microsystems and Dall Computer; "Because of our indepen-dence we are not threatening," says Tucci. Among Wang's other clients are Packard-Bell, Zenith, Siemens' Pyramid unit in the US, Appla Computer and Microsoft.

Tucci refers to Wang's rapidly expanding software business as "the office autometion systems of the future". These include structured workflow, imaging and documant menagament packages. "Of course," says Tucci, "as you digitise this much information you create



have a hierarchical storage

While Wang continues to

invest in Unix, its largest

investment is in Microsoft

Windows NT. "We are riding

that wave hard," says Tucci,

"That is not to say we are

ahandoning Unix. We still

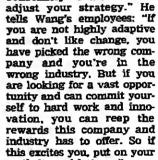
gamble signality

Wang, except with Wang you had to huy VS (Wang's proprietary software) and you had to buy the Wang workstation, whereas today you have a wide choice of servers, PC manufacturers and even microprocessor platforms. But Tucci also emphasises

that no company in the IT industry can afford to become complacent. As e company re-born, he views Wang's key advanteges es its speed and nimbleness. "We don't have a memory. We are a new business. We don't have a big legacy," he

"The industry is changing very quickly and it is easy to become obsolete unless you constantly evaluete and

seatbelts and let's go.



-

1

M:C

MONTHLY REVIEW FT IT B one is published on the first. Leave month, except in August. WEEKLY FEATURES The order of the other beauty of the other beauty of the other beauty of the month in the UK edition of the UK Hessear flears acquide a watching break and in spatiale on new IT business applications

Several Moves Ahead



Π

2 FT - 1 T

Ricoh thinks and plans ahead. Always one move ahead of the rest, Ricoh is the Grandmaster in office automation and the way to avoid checkmate. Ricoh offers strategic solutions: digital colour copiers that provide you with extensive copying and printing possibilities, multifunctional digital combination units that print, copy and fax and network equipment that increases the digital connectivity. In short, Ricoh can help give you the edge and ensure that you stay several moves ahead. Ricoh - your masterstroke.

RICOH's Digital Solutions Office Automation



Ricoh Europe B.V. Groenelaan 3, P.O. 8ox 114 1180 AC Amstelveen, The Netherlands Tel: +31-20-5474111 Fax: +31-20-5474154

Ricoh Business Machines Ltd. 23/F., China Overseas Building 139 Hennesy Road, Wan Chai, Hong Kong Tel: +852-2682-2888 Fax: +852-2866-1120

Ricoh Co., Ltd. 15-5, Minami-Aoyama, 1-chome Minato-ku, Tokyo 107, Japan Tel: +81-3-3479-3111 Fax: +81-3-3403-1578

Ricoh Corporatioo 5 Dedrick Place, West Caldwell New Jersey 07006, U.S.A. Tel: +1-201-882-2000 Fax: +1-201-673-6934

NEW ONLINE MAGAZINE Doing Bhamass Online', the first of a new, screep of glossy magazines will appear with the next issue of the FT-IT Review on December 4

IT APPOINTMENTS

Weekly IT appointments pages also appearso Wedneedays in the UK and on Friday in International editions of the FT. For contact details relating to FT-IT features, please are information below.

FT-IT Boylew, aditortal controller. Michael Wittehire Writers In thil fable, Wolums two, cumber nine: Paul Jaylos, IT Contepondent; Louise Kehoe, Tom Reemski, Roc Newing, George Black, Philip Marchester, Michael Dampsey, John Kavanagh, Musis Mozar, Geoffrey Nairr, Graphice: Robert Hutchtion and Steven Bernard, Mastrational John Springs.

Restratione: John Scrings. Sciure respects: Mathew Blyrn, Linio Filmer-The

The geo tabue, December C Main Folder Compatible and constant anois for the busides; IP, inductions IT Circotions, New media Schwere: Extractional packages and games deputed jetue Real focus, key tabuts for IT busidese upons in 1997.

· Fix U-Back mormation service cati 0990 209 903; callers outside of the UK, dial +44 990 209 903.

 Subscription service readers of the ET IT Review can now ensure they receive that own copy by post. Full details appear in the announcement on page 9 of this review.

E-mail editorial inquiries: FT.IIQFT.Com
 For scherdning details, contact:

- In London: S 1 ---
- Simon Later, FF Advertisement Sales, telephone (144) 0171 873 4129 or fax (+44) 0171 873 3062

In the US: New York: Gavin Bishop, telephone (212) 745 1342. San Francisco: Nick Mayle, telephone (415) 637 9775.

Financial Times

.

<u>.</u>

÷.

.

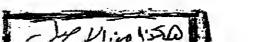
. . .

.

Number One, Southwark Bridge,

London SET SHL

m: the FT web site provides online news, comment and analysis at http://www.FT.com



Focus: technology in the office

The internetworking revolution is By Paul Taylor Scramble for shares in a \$470bn world market

As businessess move towards the information age, office system suppliers are in a race to help users exploit the vast pools of data becoming available on the Internet and through other online electronic services

gence of the Internet as a business tool, and the rapid adoption of open Internet technologies as the foundation for internal networks, or intranets, has transformed the outlook for technology in the office and further blurred the distinctions between telephony and data

processing. The immediate impact of this latest IT revolution is reflected in the scramble for new business among tradi-tional suppliers to the \$470bn worldwide market for IT products and services. Well-established companies such as IBM, Microsoft and Oracle are adapting to the challenges and opportunities posed by the phanomenal growth of the internet and

the prospects for electronic commerce. Meanwhile, newer compa-

nies such as Netscape Communications, the California Internet start-up, and Net-com, the Internet service provider, have been cetapulted to prominence while the Internet "plumbers" -such as Cisco, the fast-growing internetworking aquipment supplier, and Sun Microsystems, whose web servers help power the Interp net - heve become hot shares.

Together, these companies are putting together the digital infrastructure for the next decade - an infrastructure that they believe will provide their corporate customers with the electronic tools they need to compete in an era in which the old distinctions between voice and data and between computers and telephonas no longer apply.

Naturally, most IT suppliers have their own angle on the internetworking revolu-tion. For example, IBM - the grandfather of office automa-

months, the emer- internet and internetworking as an opportunity to exploit its expertise in systems integration. IBM has also jumped aboard the "net-Internet work computer" bandwagon. which promises low-cost digital devices that will rely on networks and servers for most of their power. Similarly, Microsoft, which days of the corporata main-

frame or departmental mini dominatee the market for computer, corporate customdesktop operating systems and integrated "office" soft-ware suites, has responded ers mainly thought of IT systems as a means to cut costs and automate existing forcefully to the threat posed functions - hence the everby Netscape and other Interelusive dream of the papernet start-ups. A year ago, Mr. less office." Bill Gates, Microsoft's chairman, set out a new strategy for Microsoft aimed at placoday. however, virtu-ally no-one talks about "office automation". ing the Internet at the core of all the company's office products and technologies. Instead, companice are investing in high perfor-

One result of this change mance multimedia network eystems to improve their is that Internet Explorer, Microsoft'e Internet browser competitiveness, reduce time software, will provide the user-interface to the next generation of Microsoft desk-



the state of the state of the state of the

ver the past 18 tion - sees the growth of the this will remove the remain- the end-users, and local area ing distinctions between networks made the sharing locally stored deta, and of date and peripherals information stored elseeasier. Bnt now all these where on an intranet or the systems are being interconnected using standard Inter-Indeed, the whole basis for net protocols to provide using IT systems in the seamless internal access to office has changed dramaticthe full resources of an ally in recent years. In the enterprise.

Firewalls and other security devices stand guard over these veluable internal resources while providing gateways to the external dig-ital world for those inside, and selective access for partners, suppliers and custom-ers. Although many companies have sought to focus on their "core businesses" and

outsourca peripheral operations; they are also seeking to use technologies such as e-mail, groupware products and electronic data interchange to build closer relationships with their business partners.

In the office environment, most medium and large-scale companies already rely on e wide range of digital devices and technologies to run their core business operations. Increasingly, these devices ranging from photocopiers to coffee vending machines are being hooked together and given their own "intelligence" so that they can function more efficiently.

Not only do these integrated systems ensure the smooth operation of basic office processes, but they also increasingly provide key interfaces with both suppliers and customers. Customer helplines are equipped with sophisticeted voice systems; computer telephone integration technology brings together the power of data processing and the reach of the telephone; Web sites give even small local companies the chance to compete with multinationals; electronic mail provides



Electronic 'whiteboards' are becoming a key feature of videoconferencing. At the touch of a button, the Groupview document conf or, above, from PictureTel, enab ies business users to send high resolution images of paper docu ts, transpere is to distant meeting sites. See also report by Nuala Moran on whiteboards, page 6: the latest trend in teams

their command.

sheer volume and variety of

data requiring delivery to

wide, high-speed broadband

candidates eppear to be Fast

more traditional forms of alone is worth ebout \$400m communication.

The growing complexity of office systems has placed network management tools at e premium. The worldwide market for network maintenanca and help-desk services is worth around \$19bn and growing by ebout 15 per cent e year. Meanwhile, as the shift towards the fully integrated digital office gathers pace,

huge volumes of deta are being generated, data that needs to be stored, sifted and manipulated if they are to give useful information.

So today some of the fastest-growing IT areas are workflow, documant and image management systems. data warehousing, enterprise information systems and dete visualisation - all methods to extract the maximum value from massive quantities of raw meterial see software report, pages 14-17. The market for open systems production worke low-cost alternative to flow and imaging software

and growing by about 35 per cent e year. An increasing number of companies, including those in the financiel services industry, is beginning to use sophisticatad deta mining techniques to target individ-

ual consumers, while others are using Internet technologies to personalise their ser-vices. The new management mantra is: use IT "to sell to e market of one".

> eenwhile, the explosion of inforthe desktop is pushing exist-ing networking technologies mation available on to the limit and fuelling the the Intarnet and through search for en enterpriseother online electronic information services has gener-ated new interest in sophistitechnology capable of carry-ing all an organisetion's cated search techniques and electronic traffic. The main "information robots", which can seek out and highlight Ethernet and Asynchronous Transfer Mode (ATM) which can support video and digital useful information. Such techniques are already being sound as well as data and used to reduce purchasing costs, track competitors and graphics. identify market opportuni-

Indeed, in the new infor-

mation age one of the key differentiators between sucattract attention. In particular, the leck of flexibility ceseful and unsuccessful offered and the unne costs imposed by hard-wired telecom links. Cordless teleorganisations may well be their ability to exploit effecphony, wireless networking tively the buge pools of information likely to be et end high-speed infra-red links between devices such As the demand grows for as printers and portable pcs edvanced forms of data comare all expected to play e munications within the office such as "whiteboardbigger role in the office of the future. Outside the office, e growing" (see report, page six) and multimedia e-mail, the

ing number of businesses is already using digital cellular telephony, portable computers and mobile deta networks to exchange information between the central office database and mobile employees, such as salesmen

or engineers. Indeed, for some compenies, the requirement for a full scale physical office may even disappear. In the "virtual corporation", staff will work mostly from home or while "on the road" and yet still have full access to the Other "inefficiencies" in panoply of digital corporate the office equipment infra- and Internet resources of the structure have also begun to dawning information age.

Π

3

FT - 1 T

states on estatestant 2" "

THE PRIME AN OF THE

· ...

25.00

NEC Multimedia

At home with the future.

Tele-Working ork NEC M

THE REAL PROPERTY OF

Tele-Entertainment Visit the "virtual senarius," strall drough a s



Electronic Commerce Shop all over the world, find the the andort of your home a

just imagine

Technology in the office

onting

4 FT - IT

IV

Outsourcing IT services • By Nuala Moran-

years, 60 per cent of the 400 top organisations in the UK will form a strategic partnership for the supply and managemant of IT services. In effect, they will be acknowledging that they can no longer cope alone with the opposing pressures of fostering a flexible and responsive IT capability at the same time as controlling the cost.

This aignals a change in approach to the outsourcing of IT, which is currently mainly done for tactical reasons, to reduce costs or to deal with particular projects.

There are strong indications that a radical change will occur in the structure of the majority of IT divisions in the top 400 UK organisations within the next few years," according to a report by the international research company, Input.

These organisations each spend more than \$12m a year on information technology. "They will on average outsource 40 per cent of this," says Peter Dooley. marketing manager of the IT services company, FI Group, which commissioned the survey.

"They are putting out such an enormous part of the IT function that attitudes to outsourcing will change. At this level it will affect the structure of the business. and they will be looking for strategic and long term partnerships.

Through these partnerships, companies will aim for an IT capability which can respond to lbe needs of the business, while keeping costs manageable. This will allow a company to move in and out of new product areas without either needing a huge investment

Take your partners

In the recession the prevailing argument for outsourcing IT services was cost reduction. Now sentiment is changing and outsourcing relationships are increasingly strategic, rather than tactical

> companies to grow faster because it removes the constraint of capital investment in computer

For example, a credit card company can recruit 20,000 new customers without having to expand its sing capability. Takeovers and mergers are also pushing companies into closer relationships with outsourcing suppliers. The cost-savings achieved when two companies are consolidated can be greater if a supplier or suppliers provide IT services for the directors are now facing the buge overhead of dealing

John Willmott: The year 2000

with the year 2000 problem.

programs, particularly those that run on mainframes, use

only two digits to designate

1986. Computer systems that

have not been changed by

midnight on December 31.

of a year ending with the

1999 will respond to the start

em will be costly

Most older computer

them to meet the needs of the enlarged organisation. An example is the \$5bn

downstream assets of British Petroleum and Mobil of the US. The merged organisation announced in October that It will outsource its accounting and financial transactions. along with more than 700 staff to Andersen Consulting and Price Waterhouse. The company would not say bow much it might save

by outsourcing. But instead of running separate accounting systems in each of the 43 countries covered by the joint venture agreement, it will be paying the outsourcing partners to

Apart from reshaping IT to make it responsive to business requirements, IT

will have to do an audit. Also, compliant systems could be undermined by data coming from suppliers or customers. Having a close outsourcing

relationship will make it easier to smooth out workloads associated with the year 2000 projects, and ensure this work is not carried out et the expense projects which driva the business forward, says Mr John Willmott, manager of Input's outsourcing programme.

Another imminent problem for banks and other financial institutions is the introduction of a single European currency. Even if tha UK does not join. systems will need changing to accommodate the single currency. Mr Dooley comments: "With European Monetary Union and the year 2000 problem, 1998 looks

like being a borrendous year with much skilled input required just to stand still. But organisations will not need that level of people all the time."

Companies need their IT capability to be scaleable. the year - for example 86 for allowing it to be turned up for a new product launch, o turned down to avoid duplication in a takeover or merger. "The problem for IT

directors is that change is like London buses: nothing happens for a while, then it all happens at once," says Mr Dooley.

"This is why they are now looking for a different type of relationship with external suppliers. Change is lumpy. Companies are looking for partnerships which will help to smooth it out."

seria

to tu

desktop market With a few clicks of a mouse, notebook PC users can gain high speed remote access to e-mail, the Internet, or a corporate intranet growing twice as fast as he 'notebook PC' once viawed as little desktops in some markets

more than an expenand are expected to continue aive executive play-thing -has firmly established itself to ontperform the general PC market The valua of aales of as a mainstream business

tool, helping individuals to mobile computers will more stay in touch while on the than double from \$30bn last move and enabling organisayear to nearly \$80bn by the tions to maintain or extend end of the decada, an 18 per cant compound annual their competitive edge. growth rate, according to a

At the same time, a growing number of organisations recent study, Pen, Palmtop and 'virtual companies' in and Notebook Computers, prepared by Frost & Sulparticular, view tha high performance portable PC as livan, the market research a more flexible alternative to a 'traditional desktop - a machine which can be least in part, by the emerging trend for companies replace desktops with porta-

hooked into the corporate network via a docking station or network card while in tha office, then taken bome - or on the road, when

traveling. Used in conjunction with fixed or wireless communications links and credit-card aized data cards or high speed fax modems while traveling, the portable PC is enabling companies and other organisations boost customer service, improve productivity and provide additional workforce flexibil-

specifically for portables. As a result, many of today'a portable PCs boast fast Intel Pentium microprocessors which nevertheless consume much less power than their predecessors.

Meanwhile, most notebook machines now come with a minimum of 8Mb of Ram, 500Mb or larger hard disks, 12-inch and sometimes ever 13-inch colour screens (virtually the same size as atandard desktops) and an integrated CD-Rom drive - all in a package that weighs just over 6 lbs.

Almost all manufacturers have abandoned the market for mono screens. Highar quality 'active matrix' TFT (Thin Film Transistor) screens are gaining market share as greater manufacturing capacity, higher yields and increased competition help erode the price pre-mium over 'passive' STN (Super Twisted Nematic) screen

For those users who do use their machines away from power sockets for extended periods of time, longer-life Lithium lon batteries now provide consider-ably more power than earlier Nickel Hydride technology. while weighing much less. Similarly, the universal acceptance of the PC-Card (previously called PCMCIA

Dooley: outsourcing allows

lies to grow faster

sborter, and companies

gearing up IT to cause a

market.

cannot allow the process of

delay in getting a product to

to bave an IT pipeline of a

according to their priority

Now if you are six months

could lose half of its lifetime

Furthermore, outsourcing

particular size, and then

work through projects

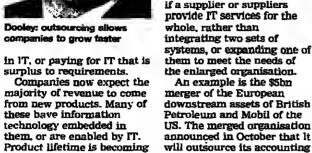
rating," says Mr Dooley,

late with a product, you

profitability."

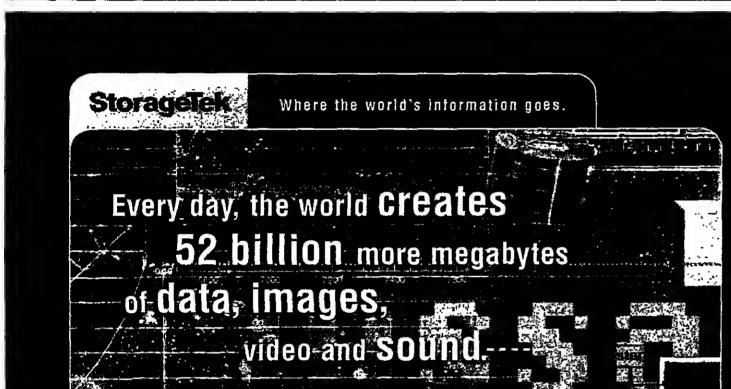
IT functions allows

"You can no longer afford



digits 00 by assuming that there is an error, and stop working, or interpret the year as 1900. This will invalidate all kinds of data-related calculations, sort routines and indexing procedures.

Dealing with this problem run one system each. threatens to be costly and distracting. Even companies which consider their systems to be data compliant



Operators at their workst Direct, which is introducing its services on a phased besis. Busine ss telephone services are being ned with enhanced software: see also reports on call centres, pages 8 and 17



tions in the new telephone banking operation at Hallfax Direct, in Water Lane, Leeds. Torch Telecom is providing 330 telephone lines through its high-tech network for Halifau

Computing on the move - By Paul Jaylor

Portable PCs make

steady inroads into



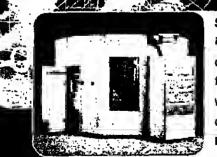
6

0

Ever wonder who takes care of it?

www.storanetek.com

Contraction of the second



StorageTek's Nearline libraries hold more of the world's priceless information than any other system. Why? Because they transparently cross different environments and operating systems and can be configured for your business, no matter what form your information comes in. So, when it comes to managing your company's daily growth of business critical information, whether it be graphics, text, multimedia, the Internet ... call StorageTek on 01483 737343 or visit our web site.

itv. Today, high speed remote adapters. access to e-mail, the Internet, or an internal corporate intranet, can be just a few mouse-clicks away, even while on the move. Sophisticated integrated software packages, such as Procomm Plus and WinFax Pro, provide easy data communications while on the road using high speed data a fax modems which now include

V34his devices capable of transmitting data at 33.600bps (bits per second). For other husiness users, including home workers, remote access programmes such as kapLink and pcAnywhere, enabla the portable

PC user to log-in and take control of a desktop as though they were sitting in front of the office machine. Other, packages, including groupware such as Lotus Notes and an increasing number of Internet-enabled applications, are also designed to work across local or wide-area communications links, enabling co-operative working.

In Europa in particular, the arrival of digital GSM (Global System for Mobiles) cellular digital networks has made keeping in touch with the office while on the move, much easier over the past five years. Portable PCa equipped with a cellular data card can be plugged into a digital GSM handset to send or receive data from almost anywhere in Europe - and a growing number of other places where there is a GSM network. "Companies are acquiring

portables in record numbers, indicating pent-up demand for the flexibility afforded by being mobile," noted a recent study of the European market for portable PCs prepared by International Data Corporation for Dell Computer, one of the notebook market leaders, with its range of Latitude machines. Sales of portable PCs, which are also manufactured hy companies such as Toshiba, Compaq, International Business Machines and Apple Computer, have been

face) devices and network "Continuous price and performance Improvementa make the decision to substitute portables for desktops easter." says the Frost & Sul-

This demand is driven, at

bles which are increasingly

sold with docking stations or

port replicators enabling

them to easily integrate with

that 70 per cent of its new

Latitude machines sold in

the UK are sold with port replicators which, aside from

the usual communications.

external video, keyboard and

mouse ports, also include

built-in aupport for Scsl

(small computer serial inter-

livan report. "Businesses in

For example, Dell says

corporate networks.

The gap in performance between desktop machines and

new portables has narrowed considerably

Japan commonly use portables now as their primary computers."

Similarly, IDC snggests that the portable PC is the primary system half the time at large and medium-sized companies in the US, but portable PC users in Europe appear to be lagging their international counterparts. The growing popularity of

portables also reflects tech-nological and manufacturing advances in areas such as semiconductor packaging, screen design and battery technology, as well as the releatless drop in component prices, particularly for Ram (random access memory) and hard disk drives.

Until relatively recently, portables suffered a number of disadvantages over their desktop counterparts. However, over the past year both

the performance gap between desktop machines and their portables counterparts and the price premium paid for portables have narrowed considerably. Two years ago a portable machine cost on average 2.8 times the price of a comparahle desktop, now the premium is down to 40 per cent.

Intel, the world's leading microprocessor manufacturer, has targeted the mobile computer for particular attention, developing a series of light-weight chips with low-power consumption

cards) standard, for adding peripheral devices such as modems, has also made mobile computing much easier - and less cumbersome.

Most portable machines now have two PC-card slots capable of taking the credit card-sized devices. As the demand increases for 'connectivity on the move', the market for PC-card modems. network adapters and wireless data cards is expanding rapidly.

For those with limitad computing needs and deep pockets, the latest genera tion of wireless digital personal assistants - devices which combina the features of a digital telephone and a bigh powered electronic organiser - are attractive.

The marriage of handheld PCs and wireless telephony - in new devices from Nokia, Hewlett Packard and 1 Motorola, as well as add-on enhancements to existing hand-held machines such as tha Psion 3a and HP 100LX -has helped re-ignite interest in the pocket-sized computing market, following disappointment with first generation PDAs such as early Apple Newton's which lacked wireless communications facilities.

For example the GSMbased Nokia 9,000 enables tha user to send and receive e-mail and cruise the World Wida Web, as well as make standard phone calls - all from a single (large) pocket-sized device. But it comes with a hefty £999 price tag.

"PDAs, growing rapidly from a small base, will continue to be a success in nicha markets, but they will need improvement before they become the mighty industry predicted et their introduction," says Frost & Sullivan.

For the moment, notebook and smaller sub-notebook machines are expected to account for the vast majority of world mobile computing market revenues - and continue to make steady inroads into the desktop market.



Technology in the office

V

والمحاد المتصلحين المار أرحم لهو and the second second

Bystems security and support - By Paul Taylor **Contingency plans are vital**

Effective data management systems, back-up procedures and disaster recovery plans are not a luxury; they are an essential part of doing business in the information age

raiders" have halped furn puting Centre. chip theft into a multi-billion-dollar worldwide industry Meanwhile, equipment failures, accidants and the unexpected can pose a threat to the very survival of busi-Corporate computer grow.

y in the off

systems, networks and database information in particubusiness tools, but dependence on computing power carries inevitable risks.

S

.s make

irket

W. C. P. W.

· · · · ·

1.77

25

.

- 21

1999

1997 - 1997 - J

.

والعاد المت

.e. .e.

tha bomb attacks in London. Docklands in February and in Manchester in June serve as tragic remindars of tha need to develop adequate contingency plans. In the wake of the resump-

ads into tion of IRA bombing activity, nearly one-in-four city firms surveyed by Guardian Computer Services in coujunction with Computer Weekly magazine had adjusted their disaster recovery plans. The survey, publishad in August, also revealed that an overwhelming 77 per cent predicted that their investment in disaster recovery systems will increase over the next two years.

. The nead for disaster recovery plans is highlighted by a recent study by Coopers & Lybrand, the accountancy I firm, which reported that more than 60 per cent of large UK organisations have suffered a sarious .control. failure with a computer system during tha past two years. And a Loughborough University study revealed that 70 per cent of businesses that suffer computer failure of one kind or another will be out of business within 18 months.

> Computer equipment failures and power failures are

omputer "hacking" problems, according to the and virus attacks are latest information Security on the increase while Breaches Study by the Manlast year. armed thieves and "Ram- chester-based National Com-

> Local area natwork, and wide area network failures in particular, appear to be on the increase and there is evidence that downtime increases as the size and complexity of networks number have failed to imple-

> > requirements

The shift from mainframebased computing towards lar have become important distributed computing and client-server systems also has important repercussions for the integrity and security Terrorist incidents such as of corporate data. Some sur-Veys suggest that between 60 and 90 per cent of corporate data now resides outside the traditional data centre on Unix and other data processing platforms.

While it is relatively easy to ensure the integrity of a mainframe data centre and that it is backed-up effectively, it is much more difficult to devisa effective back-up processes for distrib-uted systems.

Even where the back-up processes ara properly defined, security consultants suggest they are often poorly implemented. For example, back-up tapes are stored at tha sama location as the original data. If there is a fire or other disaster which

destroys the computing equipment on a site, tha back-up data is lost with the original copy of the information.

Such surveys confirm anecdotal evidence from computer users, data recovery specialists and consultants whose experience suggest that despite the risks, many companies still have inadequate back-up procedures.

(4) A. L. L. (1998).

For example, a recent study by accountancy firm Ernst & Young revealed that although IT security was a nals or subversives. the most common cause of big concern for manage-

a third had no security pol- ware. Similarly, while physi- There are an estimated icy. Another study by KPMG cal computer crime steals 8,500 computer viruses in cir-Peat Marwick. UK accountants, showed that 98 per cent of organisations in the UK and Ireland have failed to implement tha BS 7799 'Code of Practice for Information Security management" which was published Mr Michael Bacon, direc-

tor of information security services at KPMG, commenting on the findings a few months ago, said: "Given the value to organisations of both computer equipment and data, it is extremely disturbing that such a large

n Britain, four out of ment these basic security The scale of the security risk is daunting. In Britain alone, thefts of chips are prepared by Ernst & Young and the Department of Trade and Industry. Experts in the estimated to have cost British industry fibn last year, IT security sector estimate with insurance claims that breaches cost UK comapproaching £200m. The largest single incident of any

type recorded by the National Computing Centre involved a theft which cost £750.000 But the cost of replacing stolen hardware often represents only a fraction of the cost of lost data and softresearch arms.

most of the headlines, compnter crime also encompasses other activities such as hacking and virus attacks. In the US, an estimated \$2.7bn was lost to computer virus infection in 1994 alone. The growth of networking and the Internet is raising the stakes. "Computer crime is now

rife and spreading at epidemic levels," claimed the organisers of Infosec 96, that UK's first big IT security exhibition, which was held in London earlier this year. attacks.

five organisations have suffered an IT security breach, according to data panies more than £1.2bn a year with incidents rising at 12 per cent a year. "It is becoming more and

more difficult to keep unwanted 'visitors' out of computer networks," saye ter Hill, director of Index PEP, one of CSC Index'a

culation with between 150 and 200 new viruses being written aach month. In North America, a report on computer viruses conducted by the US-based National Computer Security Association, suggests computer viruses will cost North Amarican businaases between \$5hn and \$6bn this year. The NCSA study, which involved 300 large organisations, discovared that 98 per cent had experienced computer virus

The losses stemmed from costs related to finding and eliminating these viruses, as well as computer down-time. At least half of the increase in losses was caused by the new macro viruses which are spreading faster than any othar type of virus because they can travel by e-mail and can prove difficult to detect because most users do not scan documents

for viruses. Specialist "firewall" softwara and anti-virus programs have been developed specifically to help protect companies from backers and virus attacks. Indeed, the

Fortunes at stake: "firewall' security software and anti-virus programs have become crucial in helping to protect the financial sector from external hackers and virus attacks growth of the Internet, internal corporate intranets, and concerns about security have fuelled a surge in the

nascent commercial firewall software market. "At the same time that security has become arguably the hottest Internet topic, tha firewall market has emerged as a way to address this urgent con-Corporation, the market research firm. "IDC expects that this

demand and market emerattacks from within, and

Catastrophes, man-made or natural, provide e powerful marketing tool for the disaster recovery companies in the business of providing 24-hour back-up facilities and services such as off-site tape silos capable of storing vast quantities of data

What these companies stress is that effective data management systema. back-up procedures and disaster recovery plans are not a luxury; they are an essential part of doing busigence will prove a powerful most studies suggest that ness in the information age.

one, fuelling exponential about 60 per cent of comgrowth in worldwide unit pnter abuse is caused by shipments (of firewall prod- insiders. ucts) from 10,000 in 1995 to 1.5m in 2,000."

But although a growing number of companies are beginning to use more sophisticated mechanisms such as firewalls in an effort to keep their systems secure, Mr Hill notes: "Even the cern," says a report pnb- most modern security may lished by International Data not be effective for long, while technology advances further". Firewall security and anti-virus software are combination of significant also powerless against

Anomalies across international borders

Encryption will be widely adopted to protect financial transactions, despite national security concerns

The increasing use of tography - the science of data encryption - goes right global computer netback to tha beginnings of the works for commerce re-emphasises a long-runcomputer age. Indeed, one of ning controversy: how to the first computers in the resolve the problem of data encryption. On one hand, world - the Colossus - was built during the aecond companies and individuals, world war to help crack the quite justifiably, want to German military's secret keep their transactions pricommunications codes. vate; on the other hand gov-ernment anthorities, again Ever since, national governments have attempted to quite jnstifiably, are

control the use data encryption - insisting that they unhappy about possible misuse of encryption by crimimust have a way to monitor private transactions. In 1979. The connection between for example, Mr Robert physical computer system ments in Britain, more than computer systems and cryp- Inman, the nawly-installed

encryption - and de-encryption - techniques.

head of the US's National the concerns of govern- that they rely upon both the Sacurity Agency (NSA), ments, individuals con- sender and the receiver of an warned: "Non-governmental cryptologic activity and publication poses clear risks to the national security." As a result, data ancryption software was classed as 'weapon' and rankad

alongside tanks and nuclear missiles as a 'strategic' export. It is still regarded as such by the US government, despite the obvious problems cryptography. of policing the export of software over the network. Intelligence agencies such as tha NSA, despite being non-committal in public, are anxious to maintain a strong hold on

data.

cerned with privacy and civil rights have fought against exclusive government control of encryption. One of them caused a

minor revolution in cryptography during the 1970s. Whitfield Diffie, a mathematician working at the Stanford Research Institute, conceived the idea of public key

In place of the traditional single-kay encryption that evary secret agency had used, he proposed a dual-key approach which made it much simpler to encrypt

that they rely upon both the duced the first public key encoded message having access to the key - in itself a accurity problem. There is always a danger that the key will fall into the wrong

hands. Public key encryption uses two keys - a public key. available to anyone for encoding messages and a private key for decoding them. This means that anyone can encrypt a message with the public key - but only tha recipient, using the private

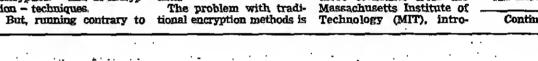
key, can decode it. In 1977, RSA Data Security, a company founded by three ecientists from the

cryptography software and obtained US patents for the technique. Meanwhile, Phil Zimmer-

man, an American computer programmer and political activist set about writing his own version of public key encryption, eventually publishing his software for per-sonal computers in 1991. Under the name 'Pretty Good Privacy' (PGP), he distributed it freely on US compater 'bulletin boards' and inevitably, it found its way on to the Internet and became available inter-

nationally. The arrival of PGP fuelled

Continued on next page





1

AS/400 Advanced Series While several computer systems offer 64-bit technology, AS/400 gives you something that none of the others can match: over 28,000 applications that can actually run on it.

Right now.

The difference is in the architecture. Powered by PowerPC RISC technology, AS/400 is every bit 64-bit - from hardware to operating system to software. Applications are already optimised for 64-bit speed and performance without the need for lengthy rewrites or time-consuming recompiles. A claim that no other company can make.

In fact, over eight years and five major upgrades, AS/400 has never once rendered a piece of software obsolete and we're not about to start now.

Which means the software you ran yesterday will still run tomorrow.

Only faster.

o buts.

It also makes AS/400 the perfect platform for today's power-hungry applicatione like data warehousing, multimedia and the Internet. And an even better way to protect your hardware and software investment.

Now, and further down the road.

So if you can think of one or two applications for 64-bit computing, call Noel Bradbury now on 0800 400 000 quoting reference FTT1196. He'll introduce you to 28,000 you can choose from. Alternatively, visit our home page at www.as400.uk.ibm.com or write to us at as400response@uk.ibm.com

Solutions for a small planet

as be found at www.icm.co

Technology in the office

6 FT - 1 T

VI

Remote access . By George Black Logging on from afar

As the market grows, remote access systems are becoming faster and easier to use

The huge increase in the number of mobile and home workers has made remote access systems one of the fastestgrowiog sectors of informatioo technology. It has become more common for people to work where it suits them, using laptop computers connected by modems to the telephone

lines to keep in contact with their offices. **ISDN** (Integrated Services Digital Network) is starting to replace modems and is being heavily promoted by vendors for its superior performance and security.

A oetwork manager seeking to enable staff to access corporate client/server systems from anywhere they like will probably need new software at hotb the client and server eods and possibly new hardware at the server end. The market for server-based remote access systems grew 262 per cent last year, according to International Data Corporation. IDC's research analyst Mr Camiel Camps says this was because systems hegan to be installed companywide, particularly for access to the Internet.

The market is now being spurred by the development of remote node concentrators, devices which can greatly ease the implementation of company-wide remote access. At the client end, the growth rate is a healthy 30 per ceot a year. This part of the market is domioated by Symantec's pcAnywhere which has around a 60 per cent market share.

Clieot access products, of which there are many, are usually very cheap and can be used on computers with little memory, but are often limited in their functionality, and especially security. At the server end, many

combined hardware and which have been changed software systems are supplied by the leading network systems vendors such as 3Com. Bay Networks and success for remote access Cisco. These are still relatively cheap and more flexible, hut still may not provide all the functionality hours. that is needed. Some may

need to be augmented with other software packages. particularly groupware such as Lotus Notes or internet software from companies such as Netmanage and Quarterdeck The more sophisticated

and expensive systems, such as those sold by Shiva, are mainly proprietary, according to Ms Marina Smith, senior analyst with the Datapro consultancy. But she says the market is moving rapidly towards more standard solutions.

Many pitfalls

There are numerous pitfalls for buyers. One is the incompatibility of equipment, notably some access servers with some modems. Aoother is the lack of expertise among resellers, especially with ISDN. According to Mr Simoo

Rohinson, marketing manager for oetwork software supplier Attachmate, many hasic packages fall down when put under pressure. They may be enough for a few users, hut they do not scale up to hundreds or thousands of users, they do not provide security and they become unmanagea-

ble," he says. in the past few years, remote access systems have been getting easier to use as well as performing faster and more reliably. Many and how fast they need to users do not want to have do so, advises Mr John Birto understand anything about the technology, and with some of the latest products they do not have to. Some are designed so that a sales person can load up the software in a hotel room and start to use the system in just a few min-

utes. Users can get faster

since the last contact, instead of the whole file. This is one of the secrets of and can allow downloading of the information needed in a few minutes instead of

Mr Christopher Colisi, vice-president of Symantec's communications products division, says many of the benefits of the latest software will come to users when they upgrade to the Microsoft Windows 95 or NT (New Technology) operating system. Performance of the 32-bit version of pcAnywhere is 25 per cent faster than its 16-bit predecessor says Colisi. It has been modified to cope with Internet access and deploys Microsoft's OLE (Object Linking

and Embedding) object software to improve ease-of-use and reduce the amount of training which users need from network managers. Users oow have a choice between using the in-built remote access facilities of

Windows 95 or NT, adding NetWare Connect to their Novell NetWare network operating system or taking oo a specialised software package which may bave more features such as security. Those who are particularly concarned about who may be getting into their networks and looking at their data may well prefer Windows NT to Windows 95 for its superior security.

Prices of remote access software products vary greatly, from as little as £50 to several thousand pounds. Buyers should start by declding what volume of data they need to access beck, managing director of the remote access division of Bay Networks. Simpler systems can be sufficient to deliver small amounts of data at relatively low speed, up to a limit of around 20,000 bits per second. If the requirement is only to pick up a few e-mail messages from time to time, then one

updates to their files by of these packages might receiving only the parts well cope with the task.

The future of fax in an era of e-mail • By John Kavanagh Still a preference for paper

Fax remains the most popular medium for messages, although e-mail is far cheaper

ومرجع ومهوريا التعادي بالمؤلف ببرين الأرجاع المراجع المراجع المراجع المراجع

ومروقة فسيرج والمراجع والمراجع والمناصب والمستم المتروم والمتراجع والمراجع والمراجع

The whirring and beep-

ing of a fax machine might seem ontdated in these days of PC communication, hut fax has a trump card: people still prefer to get messages on paper. This finding from new research shows that human nature is just as important to the future of fax as current developments aimed at

producing faster and more versatile machines. The survey of UK husiness users hy fax supplier Pitney Bowes shows that two-thirds prefer to receive messages on paper rather than elec-

tronically. Fax also scores relatively well in terms of generating a fast response from the person contacted: 48 per cent of users said the telephone got the quickest response. 38 per cent voted for fax and 8 per cent for e-mail.

hese findings need to be viewed against tha fact that fax is well-established, with 70m machines worldwide. Pitney Bowes says 5m new machines are installed each year and 55 per cent of users increase their use from year to year. Its survey also suggests that the real challenge from e-mail is yet to come: only 13 per cent of business computer users have Internet access, although 77 per cent are linked to internal networks.

However, anecdotal evidence suggests that there is no getting away from the appeal of paper.

"Fax fits in with the way people work," says Pitney Bowas vice-president Ms Deborah Sauer.

"People like paper, because it's transportable, you can read it on the train. you can scribble on it and fax It back. The preference for paper is also evidenced by the number of people you see printing out their e-mails. In sddition, with e-mail you have to go into the system to get your mes-

Mr Lester Davis, fax product manager et NEC, agrees: "If someone sends you an

e-mail attachment or file you cent coming from the labour rier (overnight), 40p by fax, onus is on them to connect have to retrieve It and decode it and if you print it out it still might not be an

exact replica of the original, says hetter training can with the exact layout and reduce this last cost: only 10 othar features. Fax is, in per cent of users had been effect, remote copying. so trained. Users are ignorant every copy is the same." of basic features such as Users also see fax as the

most reliable mathod of delivering messages, beating even the telephone. in the Pitney Bowes survey 45 per cent of business users voted for fax as the most reliable

method, with 37 per cent preferring the telephone. Mr Davis at NEC supports this finding, too: "You can scribbla a fax message and you know it will arriva immediately, but e-mail might take a day or more and it's some time before you know if there's a prob-

lem.' However, companies are ignoring one hig issue on which e-mail wins; cost. The Pitney Bowes research that the average shows annual telephone bill for big UK companies is £25m with half coming from fax

vider Uunet Pipex says delivphone charges account for 32 ering a 10-page document in per cent, purchase price 14 per cent, and supplies 4 per the UK from Cambridge to cent - with the other 50 per London costs £27.80 by cou-

38p by post (overnight) and 15p by e-mail. Sending the costs of going to and from a machine, queuing and opersame document to the US ating the equipment. Ms Bauer at Pitney Bowes costs £2 by fax, £1.56 hy post

but still only 15p by e-mail. Software and services comvarious products which seek to cut costs by combining fax, PCs and telecoms. For

example, Delrina, which supplies software for sending a fax directly from a PC, has now added a £200 scanner to enable users to enter drawings and other paper documents and add them to their faxes.

few companies are going further: a new Company called Jfax gives customers a personal fax number which receives incoming faxes into its computer, where they are held as e-mail attachments. The service is £8 a month, includages; after that ing 100 mes the charge is 15p per mes-

sage. "With Jfax, faxes are sent to people rather than to particular machinas," says director Mr Richard Bennett. People can check their faxes, e-mail and voicemail from anywhere, for example

by linking from a portable PC in a hotel room. He sees the service being especially useful for people who are often away from the office or who work from home: they do not need a fax

machine or a dedicated telephona line, although the

to the service to see if any messages are waiting.

. معمور ک

However, fax machine suppliers themselves are not standing still. Machines using plain paper are now panies are now marketing taking over, and combina. tions of printer, copier and fax in the same device are fast appearing.

Processors are being built into top-range machines to enable suppliers to custom. ise them: for example to anable machines to store incoming faxes in memory and transmit them to a PC used by someone dialling in from a remote site.

Last month, Pitney Bowes became the first supplier to launch a machine which can transmit at 33.6 kiloblts a second, more than three times the 9.6kbits of most fax machines currently installed. This follows recent agreement on a new international telecoms standard.

The company claims that these higher speeds, plus new data compression and error correction techniques can cut those annual £12.5m fax telephone bills hy up to 85 per cent.

But with all the new features, tha enduring attraction of fax in the supposedly electronic office comes back to the paper it produces. As Mr Davis at NEC puts it: "Scanning and sending physical documents will be with us for a long time yet while offices ara still based so much on paper.

Electronic whiteboards . By Nuzla Moran

Latest trend in teamwork

Boards are now software driven, with shared work appearing on each team member's PC

lights.

he electronic whiteboard is emerging as the technology which will transform the personal computer from a personal productivity tool into one which supports collaborative separate screen. working, individual work on a PC can become group

work. The original concept for the electronic whiteboard was as a free standing, or wall mounted piece of equipment which would be a direct replacement for blackboards, or whiteboards, in meeting rooms. Now It has been scaled down to a deskperipheral which acts a a shared piece of electronic paper. And the trend is that, rather than being separate piaces of hardware, electronic whiteboards will be software elements of collaborative working packages, with the shared work appearing simultaneously on the screen of each PC. The software approach to whiteboards was endorsed by Microsoft in its Netmeeting collaboration package. released in August this year in conjunction with version 3.0 of the company's Internet Explorer browser. The Netmeeting software supports the emerging industry standard for electronic whiteboards, which is known as T120. This means Netmeeting users can share whiteboards with users of other T120-compliant packages. Like many of the concepts that have made computers easier to use, the electronic whiteboard was invented hy Xerox, at its research centre in Palo Alto, California. The

coded pens which are 1990s, was inspired by research into how computers tracked hy an infrared laser system. The data is sent to can be used hy groups to work co-operatively. Richard Bruce of Xerox who led tha the PC in real time, and the corresponding project says: "Having five appears on the computer screan, Although screen workstations networked and images can he stored and using the same software, won't help people to work as retrieved, neither Softboard or Liveboard are capabla of s team. There can be no group leader, and people tend to withdraw into their handwriting recognition handwriting cannot be conown activities, because each verted into computer data. individual is locused on a Electronic whiteboards are now becoming a key feature

On the basis of this obserof videoconferencing, In September, Microfield Graphics vation, Xerox conceived its electronic whiteboard, called annoanced it was to integrate Softboard with Picture-Liveboard, as a computer to support collaborative work and maetings. Users can talk Inc's video conferencing systems. Picturetalk already write or draw directly onto provides a way for people to the 5ft x 5ft screen, creating meet virtually, instead of physically, to share visual electronic documents that can be seen and annotated content on a variety of client by peopla in the same room. Salesky, CEO of Picturetalk, or by peopla working on a

development, in the early write on Softboard with bar whiteboards means they can only be justified in high impact applications. (The PictureTel projector, for example, has a UK list price of just over £8.000). image One example of appropri-ate use would be if design

teams in remote locations worked together to discuss how one change to a design interacts with another. In this case the cost would be justified hy reduced time to market, says Mr Pal.

He believes whitehoards will come into widespread use as a software element of videoconferencing packages. For the present, rather than writing freehand, users will rely on PC drawing tools to make screen inputs during the videoconference, but in future it should be possible to make inputs using a laser platforms, says Joseph pen on the screen of the PC. Indeed, there is evidence

transmission. In addition, transmission accounts for less than a third of fax costs, according Eveo so, costs are a weapon now being seized on to a separate US study by Davidson Consulting, which Pitney Bowes itself highby companies in the Internet business. Over three years, tele-The Internet service pro-

the way people work' recipients, she says; instead they key the number and feed the document for each one individually.

Deborah Sauer: "Fax fits in with hroadcasting to several

Once, automobiles were mechanical. Now, they're also electronic. Equipped with computerized fuel injection, airbags, entertainment and security systems, even satellite navigation units. * Once, AMP was a connector company. Now, were a company of many technologies, linking sensors, switches, optoelectronics, circuit boards, wireless components, and connectors into interconnection subsystems. And

Connectina

AMP

at a

beyond. * Which is why transportation and telecommunications companies, as well as those in many other consumer and industrial markets, increasingly look to us to combine our diverse capabilities in unique and unexpected ways. To help make their products both more capable and more economical. + You still may not think of a new car as a connector. But today they're safer, and more comfortable, because we do,

borrów the

AMP Incorporating, Hannaburg, PA 17105-3698, Cantact your regional center. USA 1-400-522-6752 Carooga 905-470-4425, United Kingdom 44-1753-676800, Singapore 65-482-6311, Japon 81-44-813-6502 On the Informatial http://www.amp.com

networked Liveboard where in the world. The screen images can be printed out to provide participants with an instant record of the meeting, or saved to a computer file.

Research by Xerox also pointed to a technology imbalance wherehy people were spending 30-70 per cent

of their time in meeting rooms that were not equipped with the technology they rely on at their images projected in a video desks, Liveboard overcomes this by allowing company conference at one site can be simultaneously transmitted datahases, individual files and other resources to be to a remote location. During accessed, and worked on, in a meeting these images can the same way as on a PC. he annotated, and the While Liveboard bas its changes transmitted own huilt-in computer, elecbetween locations. tronic whiteboards are now Although they make it available as peripherals to easier for team members in link into any existing PC. An different locations to work example of this is Softboard. collaboratively, Ashim Pal, from Microfiald Graphics, of senior consultant at Ovum. Beaverton, Ohio. Softboard the IT market research consultancy, says that for the is plugged into a PC using a standard cable and the softmomant electronic whiteware to operate it is loaded boards remain a niche prodinto the computer. Users

of Pleasanton. California that in desktop videoc Now, with the addition of encing, users may find the Softboard products, users whiteboard more useful than can include freehand input. the video element according Prepared content such as to Greg Craven. Business slides and text documents Development Manager of Videolabs Inc. The compacan be shared, as can freehand notes and diagrams ny's desktop video and audio written in a meeting. nother videoconferencing company, PictureTel, is adopting a

conferencing system includes the CU-SeeMe whiteboard software from White Pine Software Inc. enabling users to share graphics and similar approach with ite data. If you are working GroupView projector. with people you know it is more important to hear them, and share screens with them, than it is to be eyeball to eyeball, says Mr Craven.

This is particularly true of videoconferencing over the Internet, where the limited capacity of much of the com-munications network makes video transmission too slow to be useful in husiness applications, "Most users of our videoconferencing systems are finding they use 3 the electronic whitehoard more than they expected to." uct. The cost of electronic says Mr Craven.

Data encryption anomalies

Continued from page 5

tha encryption cootroversy even further - leading to widespread paranoia among government agencies, both in the US and elsewhere. Zimmerman has been vilified both by the security agencies - which see his work as dangerous ~ and by RSA Data Security, which sees PGP as a threat to its commercial interests. Despite this, government

attitudes to encryption vary. "There are three different approaches," says Mr Neil Barrett, a senior consultant from Bull Information Systems who specialises in security. "The US model sees cryptography as tradeable goods and, at least within its borders, it is not primarily aimed at controlling use. The US is fairly relaxed about citizens using security vidual is in contempt of within its borders. "By contrast, the French

model does not allow encryp-In his recent book. The State of the Cybernation, Mr Barrett examines these tion. If you want to send encrypted messages over the French PTT lines, you must issues in greater detail and have a licence, which is very concludes that the use of difficult to get. Only banks data encryption will become and credit card companies more widespread - espeand one or two exceptions cially as companies use the have a licence." network for financial trans-Mr Barrett goes oo to

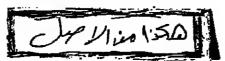
actions. describe the third - and per-The different approaches haps the most interesting of national governments approach as adopted in Britain: "The UK's approach obviously causes problems: companies and individuals is relatively free and easy. I wanting to encrypt data and think there is a feeling that send it across national borthe UK's long history of sucdars must somehow cope cess in code-cracking makes with the anomalies. the security services confi-Commercial software supdent about being able to pliers have pressed ahead hreak through any encrypwith the introduction of tion scheme. In addition, the encryption techniques, criminal law enforcas the mostly based on public key rights of government agencryptography. Netscape, the cles. If they want to decode top 'browser' software supencrypted data, they can plier for example bas insist that the key is surrenrecently extended the Secure dered - otherwise the indi-Sockets Layer (SSL) encryption scheme for internet

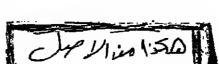
communications to use a 56

character key to increase data security and Microsoft has introduced the Private Communications Technology (PCT) protocol.

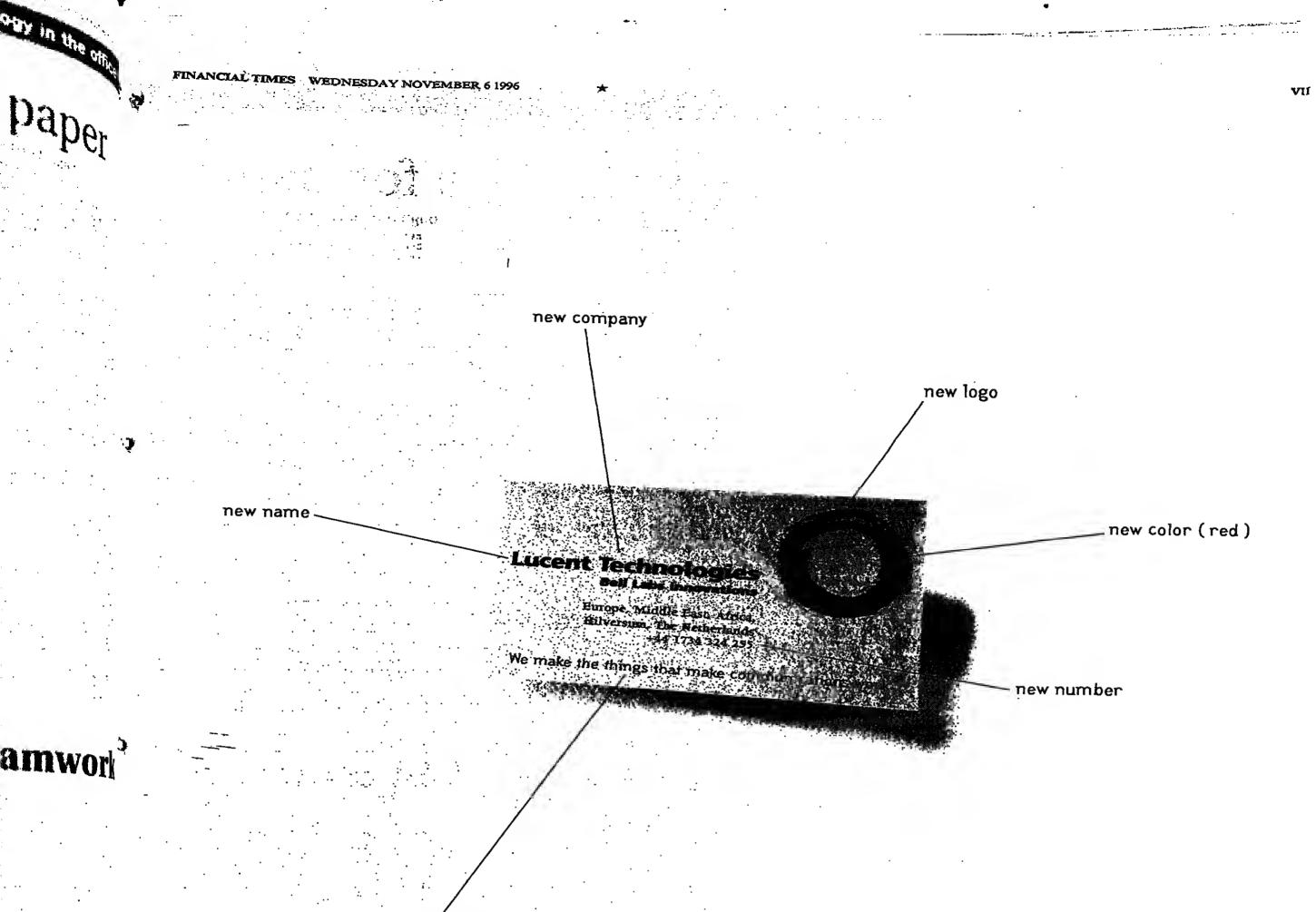
The most important step. however, has come from out-side the software industry. Credit card companies Visa and Mastercard have devised the Secure Electronic Transaction (SET) standard for commercial transaction on the Internet. Now widely supported, SET uses public key cryptography to safeguard credit card transactions over the internet.

"Although it is still early days, it seems likely that SET will be the way things go on the Internet. It has already gained a lot of support hoth from financial organisations and software suppliers, in the long-term, it will be what brings confldence to commercial users of the Internet," says Mr Barrett





court.'



(former systems and technology businesses of AT&T, plus Bell Labs, with 125 years experience in making the things that make communications work)

AX.AY: Leven and the second second

termalie

·

Part - papers

© 1998 Lucent Technologies

. . .

Technology in the office

8 FT - I T

VIII

Printing on demand . By Paul Taylor

Publish and be better off

Digital technology means business documents are now cheaper to reproduce

be arrival of digital printing-on-demand is changing the nature and economics of the publishing business

New machines from Xerox remove the need for complex and difficult pre-press work and create, capture, store and distribute documents digitally. Typically, offset printing is a multi-step process involving creating, mak-ing ready, collating, finisbing, storing and distributing e document. Digital oo-demand printing, by contrast, is a single process.

lts advocates claim that on-demand printing means a company needs only print the copies it actually requires, when it requires them. It is more cost effec-tive than traditional offset printing for shorter runs of up to about 1,000 copies which currently account for around 10 per cent of all print jobs. in fact, print costs are estimated to represent just 6 per cent of total production publishing costs, the "hidden bulk" includes manpower, inventories and waste.

Crucially, Mr Pierre Danon, senior vice president of Xerox's document production systems, says on-demand printing means that only the copies required for immediate use are printed. That eliminates the need for expensive storage and warehousing - which can cost four times as much as printing itself. Conventional printing has

a minimum run of around and its arch-rival, Kodak, 250. This means that if actual demand is for fewer copies, some will remain unsold. "In many ways, digior star tal printing takes the risk out of publishing and speeds up cash flow," says one machine. printing company that has adopted digital on-demand printing. "We recently digitally produced a highly speed book for a customer ciali whose potential sales barely stretched to 100."

> in the language of the industry, digital on-demand printing means "no more dead horses in the warebouse' New printing-on-demand

machines also highlight the movs towards more cost effective integrated multifunctional digital devices. For example, Xerox's Docu-Tech Production Publisher series of machines, first tomer value. introduced six years ago. integrate scanning, network input, digital processing, and model, and produced printing and on-line finish- and packaged on the spot



Due to be announced in January, 1997: Konica's 51 pegas-a-minute digital photoopler. This high-speed model, the 7050, is for networks talona computer systems

ing capabilities into a single eliminating inventory and wastage,

Using dial-up modem lines, Personalised patient inforsatellite up-links, internet mation can be immediately access and advanced netpublished for clinic, hospital working functionality, users and doctor, eliminating ths can also distribute and print paper-record mountains typithe right document in the cal of most medical facilities. right place at the right time. Overall, Xerox estimates The latest machines can that the number of "digital pages" published will increase at a compound also produce a print run of just a single copy. This means personalised books annual growth rate of 29 per can be produced and single-issue textbooks, journals, course packs and papers cent from 78bn last year to 216bn by 1999 and that digital printing will account for have become a reality. Xerox almost 30 per cent of overall argues that custom docuproduction pages, compared with around 12 per cent in meot publishing enhances the customer relationship 1995. "As the concepts of and provides increased cus print-for-one and distributeand print proliferats, tha Documentation can be customised by product series

number of pages eligible for printing will digital says Xerox. inc TRASE.

Phone services transformed

rate librarian, document management systems take charge of text and graphics produced hy word-processing software and spreadsheets. They will be increasingly able to handle audio and video components. Overshadowed by groupware in the past few years, document management has only recently become recognised as an technology in its own right.

Before, it was seen as either a specialised system for heavy data processing jobs such as insurance claims, or as an aid to desktop publishing for in-house erated brochures and the like. Law firms, being document-driven, were keen

Document management is by no

means yet a clearly defined

anasonic's television wall ahead of production. documentation has to be produced on tims - other-The Cardiff factory manuwise the whole manufacturfactures televisions and ing process would be held microwave ovens for Euro-

pean markets and is a prime Before introducing its example of how to join docin house on demand pubument production seamlishing system, Panasonic lessly into manufacturing. contracted the work out. The company produces 50 "We used up to four comdifferent standard models mercial printers to produce that can vary widely in the manuals, which were specification from market to market. A model run can be from a minimum of 500 units up to 10,000, with a typical lifa cycla of two Each TV set leaves the

Case study: on-demand printing ... By Paul Taylor

Panasonic reduces manual labour

printed in black and white on semi-glossy paper stock. To co-ordinate its ontside print source, the company generated a full TV set production forecast and then a three-month MRP schedule that the printer had to adhere to. Typical leed

senior technical buyer Inevitably, the number of televi aions coming off the production lins differs from the forecast. In addition, the use of outside printers made it difficult for Panasonic to offer software scars at

Determ

1800-201 172 -----

20

4

10

.

5

 ${\bf G}^{*}$

÷

ÆĽ.

÷.

51.

12.

207.

15

à ...

252 -

⊂:

÷.,

2 2

10.0

A Strate Strate

updete documentation quickly and the lack of flexibility meant Panasonic had to dispose of out-of-date manuals, worth about £30,000 each year.

To overcome these limita tions, Panasonic has installed a Rank Xerox DocuTech digital publishing system. "By switching to an in house digital print system, we have print capacity which is flexible enough to meet future demand," says times were 12 weeks." says Mike Palfrey, Panasonic's Mr Palfrey.

Document management + By George Stack

Opening new doors

Boosted by the spread of intranets, document management systems give wider access to business information

manufacturing facil-

ity in Cardiff, Wales,

claims it has significantly

cut costs by switching its

print production from com-

mercial printers to facilities

managed on-site using

Xerox's DocuTech on-de-

The company says it has

made savings of £50,000 a

year by reducing wastage and that production lead

times have been cut from 12

As for many other compa-

nies, manuals are an impor-

tant part of Panasonic's

manufacturing process and

bave to be booked into the

manufacturing resourca planning (MRP) schedule

weeks to just two days.

mand printing equipment.

ocument manage- ing popularity is Royal Dutch Shell, which recently took a worldwide licence for ment is starting to become recognissd 42,000 users of the Saros softas an essential component of modern office technology. ware. Another ussr is Abbey

VEALS

factory with a registration

document, guarantee card

and a user-manual that has

been translated into various

European languages. The

With imaging, workflow and National, which has bought groupware systems, it promises to make available a Interleaf software to enable it to transmit documents to 15,000 users in its branches across the UK by satellite broadcast. The bank aims to save £1.7m in the first year of running the system and to re-coup the total cost of its

investment within three ars. A third user is Ford Motors, which is using Documentum software to distribute information to its customers and dealers. Interest in document man-

agement has been increasing largely because of the Internet, says Mr Alan Jeffries, European marketing director for Interleaf. "It has made many more people aware of the volume of information which is available and which needs managing electroni-

cally," he says. Mr John Newton, co-founder of Documentum and its vice-president of European marketing, agrees, adding: "It is the spread of intranets (corporate networks modelled on the Internet) which is now driving

growth in the market." Managers are also realising that vast amounts of computerised information are held by staff outside corporate databases and beyond any form of control. This may include financial plans. price lists, bid documents.

piex. Documentum appears to be the market leader in msnt handling functions terms of the power of its from operating systems and terms of the power of its product, according to databa research group Ovum's evaluation, bnt research from Delphi puts Interleaf first in market share with 20 per cent, followed by PC Docs and ID1 with 12 per cant

Most systems run in a client/server structure, with the user on a client machine requesting a document and the server searching for and delivering it. increasingly the server employs 'object' software techniques to ease the re-use of existing soft-

ware Prices range from about £50 per user to about £500, depending on the scope of the functions; buyers have first to decide exactly what they may want to do with it.

Ovum warps that prices for more complex products are unlikely to fall in the next few years, as vendors will be increasingly squeezed

by freeware or bundled docuse suppliers. This will prevent the specialists from gaining the mass sales which could produce those lower prices, says Ovum. Lack of standards is probably the biggest snag at pres-

ent. Users cannot rely on the compatibility of different products, and standards. could greatly increase the use of the technology.

ODMA (the Open Document Management API, or Application Programming Interface) is becoming a more significant force, while the Document Management Alliance's specification may eventually be able to make communication between document management systems as rontine as between e-mail systems.

However, at present it is the Internet which appears to have the most potential to impose standards on competing producers.

I Datatase management systems The goal posts have moved

Influenced by the Internet, the role of the company database is changing, writes Philip Manchester

or the last twenty years, database man-"While most users are experimenting with this agement systems have hybrid application form, maintained so-called 'struc-1998/99, decisional applicatured' data - customer account codes, sales figures, tions will be a primary

means of achieving competi-

Traditional telephone systems are enhanced with smart software ail centres have

entered the public consciousness through the explosion in direct selling operations over the phone. The IT industry was quick to claim credit for the successful debut of UK companies like First Direct, a Midland Bank owned telephooe financial services operation, or the Direct Line

insurance service. Direct Line sold motor insurance directly over the phone and then rapidly expanded into broader financial products. The downward spiral in the price of computer processing power had freed these organisations of the need for a huge staff sift-

will change hands due to relying on help desk softtelephone transactions io the US every year by 2000. It cut to effective advice and is easy to see how business of this magnitude deserves new job titles. Add case study to this introduction. in the UK, when National Westminster Bank relocated part of its operations from London to Harrogate in

Yorkshire, it exploited a

favourable differential in

property prices. Leaving the

Some 27,000 companies use

the service, but the individ-

size of the customer. As with

the end-user has scope for

work

Call centres . By Michael Demosey

City of London reduced that much again before com-

ware, is just the start of putting your platform into place, Mr Padfield is quick to ware that provides a sbortstress that buying a pro-gramme from Inference does boosts their productivity. Brian Haines, electronic not mean taking on a huge banking services senior executive at NatWest, says the technical burden. "Your own thinking behind the Harro-gate Bankline installatioo is people act as authors for the system, but it's oot quite as minimum paper and maxionerous as it sounds. You mum technology". NatWest are not writing the software bas spent over £100,000 on in code, You create an applibelp-desk programmes so cation by pointing and clickfar, and expects to pay out ing.' He claims that Inference

can take staff from an operation such as a belp-desk and train them to be "knowledge authors" in a couple of days "Inference worked with NatWest to create a helpcentre where one click on the generic problem, such a pointing the mouse to a graphic for modems, produces a screen of guidance for the Harrogate phoneline

Bankline is currently

much wider range of data to many more people. At the same time it will replace old bureancratic ways of working with more modern, quicker and easier electronic Playing the role of corpo-

ing through paperwork, so the IT sector argument ran. It was true that neither of these operations would have takeo-off without comparatively cheap hardware, using reliable software to turn over the data generated by mass contact with the general public.

But uotil recently, the more obvious intervention of technology, ordering the management of incoming calis and drawing down information from computer databases to boost the telephone operators sales stance, has been ignored.

Suddenly, the economic potential of haroessing smart software to the ment details over the phone. old-fashioned telephone exchange has dawned on companies across the globe. ual who accesses the system One sure sign of the call cencan be a finance director or tre's columned status is the a shipping clerk, depending new title bestowed on staff ou approved access and the who answer the phone. increasingly these are called any computer-based service. agents, rather than opera-

queries. NatWest's Bankline The US Direct Marketing help-desk takes 1,200 such Association reckons \$599bn calls every day. These are worth of goods and services dealt with by 34 operators.



Brian Haines of NatWest's electronic banking services, holds the minimum paper and maximum technology

Another Xircom client is the German

police force in Saxony, Investigators

following up every incident, from mur-

ders to car accidents, traditionally car-

ried 150 forms with them at any time.

Now that bureaucracy in held on PC

notchook: nolice officers download

their field reports using Xircom cards.

here is that officers can get on to the

main network without needing an

extra physical 'station' to sit at; with

one access point, a PC receiving the

signals, up to 12 users can download

material simultaneously. But John

arrangement does have its drawbacks:

"With a lot of users downloading at

The appeal of a wireless connection

pleting a system that should rental from £60 a sq ft to £7. At the same time, it took the see it past the end of the opportunity to beef up the decade technology behind Bankline. While the bank anticipates

its deskton banking service Bankline tripling its cusfor corporate customers. tomer base to 75,000. Mr Haines insists the help desk Bankline allows corporates to conduct their accounts will not grow beyood 50 remotely, specifying paystaff.

the space of a phone call. By inserting software that So, tools that multiply the gives its own staff an instant power of the individual are at a premium. Californiaentry into the bank's own based software house Inferbest practice. NatWest is ence deals in what UK mankeeping abreast of the cusaging director Phillp Padtomer's needs. Electronic field calls "a platform for knowledge". The \$30m inferbanking for domestic customers has received a lot of ence sells software that publicity, but at Harrogate one large institution is encapsulates the day-to-day processes of the customers' applying the lessons of conbusiness. Buying a copy of this programme, known as keep corporate services runcase-hased reesoning softning smoothly.

expanding from a base of market cash management services to an ambitious offering of

payment, treasury and interearly adopters, but they were not followed by a rush national management electronic banking. The helpof others.

desk relies on inference to meet its target of "one call Now document management software is being taken only" resolution of problems. up by a much wider market. Many of the calls fielded It may be used instead of or by Harrogate fall into a catein addition to a corporate gory of inquiry known to all groupware system such as Lotus Notes, which offers IT suppliers as "read the only limited document manmanual" or RTM. These calls represent the expectation of agement facilities.

average users who have bet-"It is starting to become a ter things to do than wade part of the mainstream. tbrough manuals and though it is not quite there assume the service-provider yet," says Ms Joanne Boncan sort out their problem in nett. Filenet's marketing programme manager for the Saros document management product. The sector is growing at 50

per cent a year and will resch \$1.2bn this year. according to research from CAP Ventures. "The market is moving into higher gear," commented Mr Bill Zoellick. its research director. All recent research on the techsumer product support to nology points to it being poised for rapid growth. One example of its spread-

technical drawings, contracts, company standards and policies and other information essential for the business.

"If the person who created the document does not turn up for work or the machine on which it was held fails and there is no copy, there is a crisis," says Filenet's Ms Bounett. "Document management allows companies to overcome that situation." It is by no means yet a

clearly defined market. Many companies operating in other parts of the soft-ware market have, or would like to have, a presence in document management. This is clear from the number of mergers and acquisitions which have taken place.

The workflow and imaging systems vendor Flienet bought Saros; the network operating system company Novell bought SoftSolutions; the database vendor Informix bought Illustra. Potentially important new alliand data for decision-makances were formed by OpenText with Odesta and buying patterns, is disap-CP Software Group with Unipearing.

outstanding balances and so tive business advantage through IT." Meta Group on. But now company databases are increasingly called notes. upoo to cope with unstruc-Established database softtured data - text files, ware suppliers, are faced, images and multimedia data.

therefore, with the problem New concepts such as docof combining traditional ument management and methods of storing and data warehousing are also accessing data with more modern approaches. Oracie, changing the uses to which the market leader, has sel data is put. And the growth of Internet-based systems out to achieve this with has altered the way data is extensions to its established viewed. The flat 'bypertext' relational data base softmodel used on the Worldware.

Wids Web is replacing the "Users are increasingly conventional view of data as confronted with information a strict hierarchy where, overload and are looking for new ways of coping with data. The use of the internet say, a customer account is stored at the top of a pyramid with orders and invoices is bringing in a plethora of thematic searches, instead of Inevitably, these changes simple word searches, and

demand new ways of storing the traditional tabular view and accessing data. US researcher Meta Group, for used in the relational database is not appropriata," example, points out that the explains Mr Andrew Bailey, traditional division between product marketing manager so-called operational data at Oracle UK. orders, invoices and so on -

"We no longer think of ourselves as a relational database company. The tra-

Continued on facing page

Doing away with wires • By Michael Dempsey

The idea of dispensing with the chaos of wiring that links com-puter networks is very attractive. Architects have learned to design wiring ducts into new buildings, but running kilometres of eable through an old construction can be a nightmare. So "the wireless Lan" (local area network), flashing data between machines using radio waves, has an instant appeal to anyone trying to reconcile high technology with listed or ancient

Not every computer network is a potential convert to wireless connections, but some networking specialists have spotted a large market in wireless technology.

Xircom is a \$136m group: it has begun deploying radio technology connecting portable notebook computers to networks. In the French town of Beauton, a hospital uses this technology for bedside patient care, doctors and nurses accessing files with a hand - held terminal, A crcdit-card sized iosert into the spare slot normally occupied by a modem card is all it once, the process might be slow." takes to let the portable PC use an

Computers linked by radio waves

Wireless connections offer greater flexibility to office planners - and encourage executive e-mail addicts larger, conventional hardwired net- for radio transmission. But most wire- ing. One very practical use of the wire- for mobile products, says this figure

less Lan sites want to send and access conventional files of written data. And the cost of Netwave, Xircom's wireless PC card, is low and practical. Each PC card retails at \$495, with the radio interface to the main, physical network, costing \$1,850,

Lindsay emphasises the robust appeal of his cards: "We have compact cards - they don't have any protruding wires, which is important for users such as the police and doctors."

The wireless business is still mostly confined to vertical markets, says Lindsay - "but it's useful to people who want to increase their productivity". Lindsay, a marketing manager with He cites "the higher executive cate-Xircom in Belgium, admits that this gory as a target group: main board members develop an insatiable appelite for electronic mail, according to Lindsay, and wireless local networks could Multimedia applications, with a rich allow them to read their latest mesinfra-red frequency to link up to the mix of video images, can be very taxing sages at a glance, even in a board meet- But Rich Redelfs, marketing director

less Lan, involving Xircom'e cards, was demonstrated in Austria this year at the annual engineering conference of PC-maker Compaq. The company preseoted its entire strategy for working with third parties through 30 present-

ers in ten different rooms: the wireless Lan shared files between attendees' laptop PCs, and every presentation was downloaded from a central server.

The viability of wireless Lans has just been underlined hy a management buy-out at Xircom. The Netwave wireless product line was purchased by Xircom's chief financial officer. Jerry Ulrich, and the US company, Technitrol.

Another US group, 3Com, turns over \$2.3bn in the global data networking arena. It estimates the wireless Lan marketplace is worth \$200m worldwide.

should grow to \$1bn by 1999 - "more and more products demand linking through radio frequencies".

But he also confirms that this demand is emerging from a select number of vertical markets such as warehousing, or retail point-of-sale systems. As Redelfs notes, a wireless connection between electronic tills and stock checking computers allows a supermarket to easily reconfigure a store with-

beneath.

ing, such as sales trends and

out worrying about the complexity of installing naw wiring. 3Com is one of 15 participants in the US Wireless Lan Alliance. WLA president Jeff Abramowitz explains how his

members can reconp an investment in R&D and make a profit by selling networking cards, costing \$500 · \$1,000. "People think the networking card can't be big business with this kind of retail price. But if you sell a million of to link computers.

This market is growing at 53 per cent a year.'

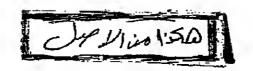
The Chicago Board of Exchange is an example of a location where a large number of itinerant dealers roam the Exchange floor and benefit from microwave links from their PCs to central processors.

Novell, the \$2.8bn networking glant, which made its name writing software that keeps most office Lans up and running, has kept a weather eye on the emergence of this market. It has concentrated on sending data through a radio system employed for soma mobile phones and known as Global System Mobile, or GSM.

Simon Palmer, product manager for Novell's mobile systems, says his company is exploring the use of GSM links to data networks with Sweden's Volvo Cars and national post office.

Laat June, Novell demonstrated a link-up of 40 laptop PCs at an exhibition in Birmingham: the networking currency was radio etbernet - an established and proven Lan technology was "hitching a ride" on the latest way

New directions: see page 11



them, your investment is worthwhile. a communication and a second

Technology in the office

etermined to dominate

Despite innovations from Sun, Oracle and Netscape, Microsoft leads the office software market by a distance

over the market for personal computer software is so extensive that the company is often depicted as the ruler of the software world.

Last year an Internet joker even suggested that Microoft may be reaching beyond this world to try to dominate the heavens. A widely distributed fake press releasa announced the company's acquisition of the Roman Catholic church

Microsoft did not appreciate the gag, but for many in the software industry who have felt the effects of the company's growing ambi-tions, it hit the mark. Microsoft is now the world

leader in many segments of the PC software market. Its strengths, and biggest revenue generators, are the Win-. dows operating system and the Office suite of business applications

Microsoft holds an 89 per cent share of the world market for personal computer operating systems, according to Dataquest, e market cent share.

icrosoft's influence research group. About 87 per cent of all PC operating systems sold this year will be Microsoft's Windows, the researchers predict, while the older MS-DOS still share. accounts for about two per

cent of the market. Appie Computer's Macintosh operating system comes a distant second with just over six per cent, while IBM's OS/2 has achieved e Microsoft's plans to incorposhare of just over two per The picture is similar in

the "suites" market for packages of office applications programs. Microsoft Office was the market leader with an 84.5 per cent market share in the second quarter of 1996, measured in revennes, according to Datequest.

In second place was IBM - from Microsoft's Money pro-Lotus' SmartSuite package with 7.8 per cent of the market. Corel, which recently ecquired the Wordperfect subsidiary of Novell, has increased its share of the market rapidiy, bnt still market share.

came in third with a 7.7 per

In spreadsheets, Micro- of their personal finance pro-soft's Excel had an 80 per grams over the past few cent market share last year. weeks and the battle is now In wordprocessors, Microsoft focused on forging marketwas far and eway the market ing agreements with banks. On this front, Microsoft leader with about 70 per cent market share. Microsoft appears to be moving ahead PowerPoint leads the field of Intuit. with 75 per cent market Yet in some segments of

the PC applications software In contrast, Microsoft is market, Microsoft has only a coming from behind in the emali presence. Entertainmarket for Internet browser ment and games, for examsoftware, where Nescape Communications holds sway ple, was the largest segment of the US consumer retail with e greater than 80 per cent market share. However, Microsoft

rate its browser in e future is gaining version of Windows may ground rapidly enable the company to leapfrog its competitors. in the One PC software company that has proven to be remarkably resilient to com-

intranet field petition from Microsoft is software market last year, representing about 19 per cent of total sales. In this Intuit, publisher of Quicken, the home banking and personal finance software: Despite intense competition category, Microsoft had only a four per cent market share, gram, Quicken remains the according to the company's own data leader with a 73 per cent

market share, according to Similarly in educational PC Data, a US market software, Microsoft had only a seven per cent US retail research firm. Microsoft Money has a 23 per cent market share last year. In the "reference" category for electronic encyclopedias, dic-Both Intuit and Microsoft tionaries, altases and the

like, Microsoft claimed a 34 grams over the past few per cent share of US retail sales last year. While Microsoft continues

to ettack consumer markets, it is putting much of its efforts into expanding its role in the "enterprise" soft-

ware sector with its Back Office suite of server products. Windows NT, Microsoft's operating system software for network servers, is the foundation of Back Office. It is gaining ground rapidly, particularly in the deployment of "intranets"

office networks that adhere to the standards of the public Internet. Can anything, or any

Microsoft behemoth? Many in the computer industry believe that Microsoft is unstoppable because it has

greater resources than any of its individual competitors. Yet Microsoft does face challenges. Sun Microsys-tems, the leading manufacturer of Internet servers, is capturing the attention of third party software develop-

ers with its Java programming language. On the back of Jeva's success. Sun has launched a range of related products that constitute a new computing 'platform' to

other company stop the Dominating the proceedings: Bill Gates, Microsoft chairman, towers over other contenders in the office software market. He is pictured here in a video-link with NBC interviewers in New York

> compete with PCs running Microsoft programs. Netscape Communica-tions, which leads the market for Internet browser programs, is also on e course to clash with Microsoft. Even as Microsoft plans to incorporate a browser in a new version of Windows, Netscape is expanding the capabilities of its internet program to compete with Windows.

Then there is the Network Computer(NC). Promoted by Larry Ellison, chairman and chief executive of Oracle, the NC is a lower-cost alternative to a PC. If network computers take off, they could pose another threat to Micro-

soft because they would probebiy deploy software developed by the company's rivals. Microsoft is convinced.

however, that the PC will

remain the primary desktop computing system and chairman Mr BillGates dismisse it as a step backward in terms of technology.

For the foreseeable future, however, Microsoft'e dominant role in the software industry appears accure. **Competition from Netscape** Communications and others seems only to have hardened Microsoft's determination to

remain number one.

There's more to quality than meets the eye.

Quality can sometimes be difficult to quantify. With PCs, it's simple. The higher the quality, the lower the cost of ownership. Fujitsu ErgoPro PCs are designed to provide the highest levels of build quality and reliability, which means they are up and running faster and keep on running. But there are many other aspects of ErgoPro's focus on quality that help reduce costs. Ergonomic keyboards, low emission monitors, low noise output and pin-sharp graphics are features that produce a more relaxed operating environment and hence improve end-user productivity. Comprehensive desk-top management facilities, pre-installed LAN software and plug-and-play connections make network control more effective and upgrading much easier.

Web's impact

Continued from facing page: year. He claims that these

ditional relational view is just one component in e range of tools which we must give users. Other tools include ways to manage video data and things like spacial geographic information systems data. We have also built our ConText option for Oracle version 7 database to handle text."

Mr Bailey argues that companies want an integrated view of their data, no matter what the form or source; The obvious application of

this kind of technology is in

managing textual data -

document management. I

don't see document manage-

ment as a completely sepa-

rate application. It is just more information and

should come under the same

ay in the

al labour

100rs

.7.5 20

moved

ing a fit was brown

regime as the standard structured data." Increasingly, the Internet and the World Wide Web are becoming part of "e data continuum", particularly when it comes to managing unstructured data, he says.

using Documentum's Right Site software. RightSite filters and assembles the data for web pages when required, thus ensuring that users are looking at the most up-to-date version. FileNet, another document

management software supplier has taken e similar approach with its Saros@Mezzanine software.

"We see that the problems of keeping Web pages up to date as crucial to successful use of the Internet and Intranet systems. The problem with classic Web links is that they are static and you must rely on some one to update it. Our software links into the live document systems so Web pages will always be up to date," explains Mr Karl Matthews, product marketing manager at FileNet UK.

He describes Saros@Mezzanine as an 'enterprise librarian' which can bring any kind of data together and distribute it through the Internet and the Web. This

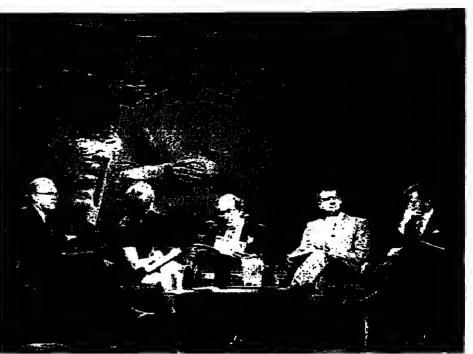
has implications which go

far beyond simple informa-

costs can be reduced by

2.25

have launched new versions



IX

9

FT - I T

the goal posts because it is so easy to deploy information applications. We have picked up on this and our InterOffice product now uses the Web to store documents and references."

Other suppliers also see the Internet as having an important role in managing unstructured deta. Document management software company Documentum, for example, has recently re-oriented its product strategy to take eccount of this.

"Without question, the web is the new paradigm for corporate information delivery. But even though the web is effecting the way information is distributed, customer'e information requirements hevan't changed," says Mr Jeffrey Miller, president of Documentum. The cost of setting up Web site as part of the corporate network can range from \$60,000 to \$2m and the cost of maintaining the data . can be as much as \$450,000 a

tion retrieval and the use of the internet as an expansion to the traditional database. It could change the way companies work both internally and with each other. "We see the Internet primarily as e communications medium. But it provides e platform for us to deliver

document management and workflow applications and lets us think ebout expanding workflow beyond the immediata organisation," says Mr Matthews.

The traditional corporate database is now being seen as more than just e place to etore data. As a result of the spread of applications, based on the Net, it is being transformed into the foundation of a completely new method of carrying out business. While it is still early days, the first building blocks of this foundation are being laid.

Receive your own copy by post

Subscribe to the FT Review of Information Technology and make sure of receiving your own copy by post of Britain's eading IT review. All prices include post and packing: . 15

	UK	Europe	Rest	of World
Five issues	£8.50	£14	£26	
Ten issues	£16	£26	£50	

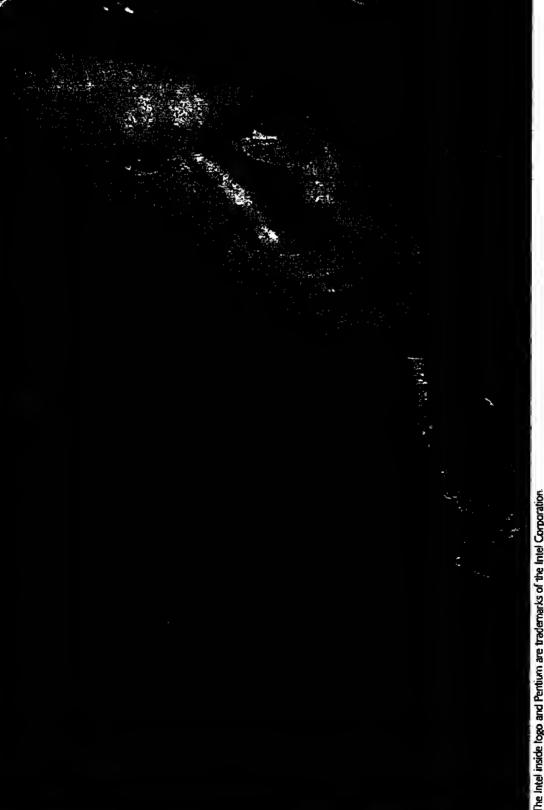
For further details, or to place a credit card order, phone 0171 538 8288 (UK callers) or +44 171 538 8288 (oversees callers)

You only can also subscribe by cheque or postal order for the above amounts payable to Financial Times Ltd. Please write or send business card with your payment to:

> Terri Sanderson Subscriptions Department Financial Times Number One Southwark Bridge London SE1 9HL

The Financial Times Review of Information Technology Is published every month except August. Issues appear with copies of the Financial Times on the first Wednesday of each month. Postal subscriptions are delivered as soon as possible after this date.

> -----



High levels of security protection cause potential thieves to think twice and future-proof technology enables growth without system replacement.

It all adds up to superb investment protection. And at really keen prices. Check the ErgoPro range out for yourself, and do some comparisons. You could be in for a pleasant surprise.

For more information please phone FUJITSU ICL Computers on 0345 123 555







PCs • NOTEBOOKS • SERVERS http://www.fujitsu-computers.com

10 FT - I T

 \mathbf{X}

Information access • By Rod Newing

Digging deep into the data mine

The analysis of business information is becoming increasingly sophisticated as orgainisations try to make the best use of databases

s competition becomes senior managers fed by ana- Holos." more intense, leading organiaations are increasingly trying to use liteir data more aggressively In order to make smarter decisions

Most large businessea bave moved heyond paperbased reports to software tools which enable users to access data directly. However, they are increasingly moving beyond queries and reports to use interactive data apalysis tools, such as multi-dimensional On-Line Analytical Processors (Olap), Enterprise Information Systems (EIS), data mining, data visualisation, desktop mapping and intelligent agents

There is a need to act more quickly to be competilive and make better use of informatioo in databaaes." says Bernard Llataud, cofounder of Business Objects thttp:///www.husinessoh. jects.com), the French enduser information tool veodor. "Companies want more of their users to make more Informix purchasing Metadevisions, not just a few cube and Seagate huying their analysis and helps

tised access and reporting." Business Objects bas recently written its own Olap analysis tool and launched the most comprehensive data mining partnership scheme in the industry. "Giving users access to information is the first step, but they need to analyse it." explains Mr Liataud. "Access, analysis and reporting are part of the same workflow. Olap is the easiest tool for users and is the widely accepted first step in analysis.

Olsp technology has been available for many years, but is starting to be much more widely accepted. "Oracle's purchase of the Express Olap tool was a smart move and was the major event in the market," says Mr Eric Woods, senior consultant with analysts Ovum, (http: !! www.ovum.com). "It has had an incredible gravitational pull and other vendors have taken similar steps, such as

Multi-dimensional analysis lysts, so we have democra and reporting Is now seen as an essential wsy of analysing husiness information, says Mr Nigel Pendse, co-author of The OLAP Report (Business intelligence, ISBN 1 898 085 21 8). "There have been some extraordinary growth rates, such as Brio, trebling turnover in a year. Business Objects have rewritten their whole product to add Olap technology. Business Objects 4.0 isn't just 3.0 with extensions." **Business Objects' fiercest**

competitor is Cognos (http:// www.cognos.com). one of the Olap ploneers, which is intending to bring data mining to the masses. "Users are recognising tha need for a range of capabilities, so that they can understand information, as well as report it." says Mr Neal Hill, vice president for marketing.

"Olap is the next step after reporting allowing users to explore their data. Data mining then acts as a software assistant which automates

Software Developers' Challenge: London competition **Charity will benefit**

tools.

conference.

One of Britain's oldest children's charities, the NSPCC, which protects those who may be at risk from abuse, will be the beneficiary of this year's "Software Developers' Challenge" which takes place during "SoftDev 96" at Olympia, London, later this month

The National Society for the Protection of Children, founded II2 years ago, has requested a new human resources software programme to improve management and distribution skills at its 120 centres throughout the UK. **Competing software**

development teams at Soft-Dev, will have 24 bours to design the application to process data on line work of 1.250 NSPCC staff. The system will be used for the exchange of expertise in areas such as legal matters and fund-raising.

RHEA International, the Enterprise application software consultancy, based development tools.

brings together some of India's leading software display rapid development Last year, another charity development companies. - the Save the Children Fund - received a tailor-made purchase and supply software application. valued at £20,000 and developed by the challenge winner, Safe Computing.

This year's SoftDev event, being held on November 27 and 28, takes place alongside WebDev 96. The two events focus on software development for corporate systems, the Internet and the World Wide Web through a range of features which include three high-level conferences and exhibitions: □ The IntraDev'96, focusing oo the latest technologies for intranet development. The Dynamic Systems **Development Method** (DSDM) RAD conference. D Visual Basic user-group

Mr Dewang Mehta, executive director of india's National Association of Software and Services Com panies, Nasscom, will give the keynote speech for a two-day seminar programme presented by indian companies. Mr Mehta's work includes extensive lobying with central and state governments in india - as well as over-seas - on behalf of the Indian software industry which is growing at more

than 50 per cent a year and where software exports have increased 20-fold in the last six years. Revenues for India's software industry exceeded

\$1.2bn in the past year and will be worth \$5bn a year by the end of the decade, says Mr Mehta.

See also today's report on India's software industry.

on is only the first step - business use need easy-to-use analysis systems to make the data productive

them find hidden patterns in their data. The next logical atep is forecasting, because managers want to know what the effect of a relationship could be, so we are adding that with 4Tune from **Right Informstion Systems** (http://www.fThought.com)." New and novel visualisation techniques would follow, in order to comprehend the full impact of forecasts, including mapping, says Mr Hill. "Once you have deliv-ered a set of tools you will want to deliver the capability in software robot form.

using intelligent agents, Two years ago we predicted that by 1999 our tools will watch your Internal queries and automatically get related information from the Internet, which is the ultimate

information source." It is this move to hring more leading edge tools to users which is consolidating the products. Most of them have existed for some time. being marketed by small spe-

cialist vendors. "Chief information officers will no longer tolerate tools which are not integrated," says Elizabeth Ireland, vice president of marketing at Mapinfo (http: //mow.mapin-fo.com), the desktop mapping vendor. "We are still in the early days, but with object technology there is an opportunity for software vendors to provide integrated suites of products."

usiness Objects also B sees the need for close integration: "We are partnering with seven data mining vendors, but will work more closely with one, because it needs to be fully integrated as part of a single workflow for the user," says Mr Liataud.

We are investigating new technologies, such as maps, drawings and alerts which can prompt the user for exceptions. We want to provide a universal decisionsupport functionality if we are to support the many

server with hasic non-customisshle functionality which can be given to the masses," says Greg Kerfoot, president of Seagate's Information Management Group. "Intelligent agent technology is the most interesting." says Mr Woods, "It ernands analysis and increases automation to make it easier to deal with vast amounts of data, making users more productive."

Comshare (http: unres.com-share.com) has incorporated intelligent agents into their Commander Decision product, which already includes an Olap, EIS and data mining. "We have created an

object-oriented architecture into which these different features can be inserted, hut which supplies a context for the user," says Mr Dennis Gangster, Comshare's chief technology officer. "For instance, we can insert a specific object just for sales analysis for hrand managers in the consumer packaged goods industry. We are currently working with US research laboratories which are doing advanced research into data visualisation which we want to add just for users with very large databases." Information Builders' (http://www.ibi.com) Focus Six visual information suite

provides a set of tools in a managed desktop, which Includes reporting, Olap, EIS, desktop mapping, data mining and data visualisa-"We have to support the needs of novices, knowledgeahle users and analysts,"

says Michael Corcoran, director of marketing, "The tool which can provide the most complete solution to data analysis is the tool which will be most widely deployed."

Obviously, users are going to need to learn bow to use these new tools before they will be able to generate any competitive advantage. Cognos and IBM have founded

FINANCIAL TIMES WEDNESDAY NOVEMBER 6 1996

Technology in the office

Voice recegnition . By Philip Manchester Now you're talking the PC understands

Speech recognition software is being added to standard applications

reech is going to be "the future of the user-interface with comput-J ers", says Ms Anne Marie Deroualt; worldwide executive for IBM's VolceType speech recognition products. "Development of the Inter

net will bring far more people in contact with computers and this will force the interface to develop. At the moment our minda are tuned to the graphical user interface but in the future we see speech as one component in a multi-mode interface," she explains. Speech recognition bas

moved a long wsy from its rather sbaky beginnings as a gimmick to the point where it is now a viable option on sktop personal computers. Only 10 years ago, speech recognition demanded the power of a massive mainframe. Now there is a growing range of products that need only s PC with a standard sound card to carry out

usable speech recognition. Ms Deroualt says IBM'a VotceTypa software works on a relatively standard PC with s Pentium processor. It recognises individual words as they are spoken, making it ideal for command-based applications such as navigating around an operating ays tem. It can also be used for dictation into a standard word processing program although panaes are required betwaen words. IBM also has so-called continuous speech versions of the software - but like rival products from other suppliers - these are restricted to a specific context.

Now that usable speech processing is available on a PC, it is possible to add it to standard applications rather than working as a

stand-alone technology. Ms Deroualt says IBM is keen to see the VoiceType technology become part of a wide range of applications in much the same way that graphical user interfaces are currectly used. It released a VoiceType toolkit to help resellers and other manufacturers build speech recogni-tioo into applications.

The UK software company Staffware bas, for example, added VoiceType to its workflow package so that users can control their work

"vocally".



I can ad Rb in the den confident that it will understand me

by the sccuracy of the techin Covent Garden. When we demonstrated the first ver nology and notes that it has sion of DragonDictate, I had no difficulty with regional accents: "It seems to underto stick to a script. But it has improved so much with stand my cockney accent the new version that I can which I suppose must be ad lib in the demonstrations good for financial applicaand be confident that it will understand me." Drsgon Systems, a UK-

Philips Speech Processing, based speech recognition part of the giant Philips company and pioneer of speech recognition, has also moved cation. Its DragonDictate towards including its techsoftware is now in its second nology in other applications. generation and comes with a As the first company to prorange of tools to help build it duce a commercial continuous speech recognition pack-We saw that developers wanted to sdd their own feaage in 1995. Philips has continued to build the range of "contexts" including varition technology. They might ous branches of medicine want to restrict the words used to fill in a field on a and legal applications.

"We have the radiology version now working in two hospitals and a growing amount of interest in areas such as banking and

finance," says Mr Roger Holmes, general manager of Philips Speech Processing in the UK. "We are now promoting the use of the software with various partners to take the technology and include it in their existing applications," he continues. Philips's systems works in a slightly different way from IBM Voice Type and Dragon-Dictate in that it sends the

a special PC server attached to a local area network. Mr Holmes notes that for the applications It is concentrating on in the medical sector, this "batch" approach is quite acceptable - "we cognise that there is an application for immediate real time recognition. But in radiology, for example, users do not need to see the words coming up on the screen as

While the day when we will be able to use natural speech as a substitute for a keyboard and a mouse is still some way off, the first only expecting zero to nine steps have been taken and

ual voices from half an hour to a few minutes. "This means you have a usable system much quicker than before with up to 80 per cent accuracy. The system will, of course, continue to improve as it learns more about an individual's voice," says Dr He goes on to say that the new version of DragonDlctate can also recognise some continuous speech: "Num-bers and post codes can be

Hunt.

tions in the City."

into applications.

Sv

specialist also sees the technology gaining wider appli-

tures to the basic recogni-

form, for example," says Dr

Melvyn Hunt, joint manag-

ing director of Dragon

mprovements in the lst-

est version reduce the

time taken to 'train' the

systems to recognise individ-

input continuously with the new version. This means, for example, you can put data into a spreadsbeet much more quickly than typing."

Mr Stephen Thompson, managing director of Dragon reseller, Volce Write, says this feature is particularly attractive to financial institutions: "DragonDictate is very good for spreadsbeet

they speak" work. Once you are in the spreadsheet program It is

Directions

I ware a little

* ¥ 74

laws.

continuous speech signals to

63. S

technical consultancy and judging for the competition. Dr Alan Rushworth, RHEA's managing director, says: "The challenge, now in its third year, offers an exciling opportunity for developers to show off their skills - and for suppliers to	Indian Software Pavilion A new initiative at Soft- Dev'96 at Olympla will be the Indian Software Pavil- lon, sponsored by the Financial Times. This event	the FT-IT Review. For details on the Soft- ware Developers' Challenge, call RHEA on +44 (0) 1932 830 551 (callers outside the UK delete 0, add exit code +44); for exhibition details, call Jon Howell nt Interac- tive +44 (0) 181 541 5040.	10,000 at Shell. 8,000 at Dow Chemical and 6,000 at BT." Seagate Software (http: // www.seagote.com), whose Crystal reports is a widely used access tool, purchased the EIS, Olap and Data Min-	third parties. The informa- tion tools can also be tried out at the Informix Super- store or IBM's new Teraplex complex. Information suites have a lot to offer to organisations who need to improve their	explains Mr John Pyke, tech- nical director at Staffware. "You can use it to instruct the program – call up files and the like. You can use it for dictation – or even to access the Internet." Mr	has installed DragonDictate systems at Barclays and Lloyds banks as well as many smaller companies. Mr Thompson says the technology has improved	gains a wider market. Stephen Thompson nt Voice Write, tel 0171 232 2030; Dragon Systems, 01242 678581; Philips, 01206 75555; Staffware, 01628 756300, (cal- lers outside the UK delete 0,

	Soft	Dev (9 –	EVENT DATES	27 - 28 NOVI Olympia 2, 1		Webl	Jev (
SoftDev 96 & WebDev 96 are the	SoftDev 96		· · · · · · · · · · · · · · · · · · ·	27 Nov	28 Nov	WebDev 96	241 12.29 E - 19 - 19		27 Nov	28 No
	Company Name	Demonstration Title		Room Code	& Times	Company Name	Demonstration Title		Room Code & T	Times
definitive presentation based events	Antares Alliance Group	Making Sense of Application	Development Trends	B 10.00	B 14.00	Advanced Visual Systems	s Dynamic Graphics & Visual	isation on the Web	0 10.00	D 10.00
lieuing up the leave mere about the	Borland	Successful RAD for Real Life I	Business		E 14.00	AimTech Europe Ltd	Pour on the JAVA, Hold the	Programming	A 10.00	A 14.00
allowing you to learn more about the	Cognos Ltd	Building Competitive Advanta				Applix UK Ltd	Interactive Applications on	the Internet.	A 11.00	A 15.00
emerging software and web		Component Based Developm		A 12.00	A 10.00	Borland	Web Based Development w	ith Borland IntraBuilder	E 12.00	
	Hitachi Software	Developing Ofstributed Busin		A 14.00		Business Systems Group	Get Protected - Internet & I	ntranet Security	B 11.00	B 15.0
levelopment products and tools.	Hitachi Software	Component Based Visual Pro		B 12.00	A 12.00	Computer Associates Pic	Dynamic Data Publishing 8	Updates Across Internet		
	LDRA Ltd	Demonstration of Testing Soft	oware Using LDRA Test	bed C 13.00	C 15.00		Technology		B 15.00	B 13.0
Select the FREE PRODUCT	LDRA Ltd	Making you More Effective an	d Setting the			Hitachi Software	Internet Based Software Re	use Programs		B 10.0
EMONSTRATIONS you wish to attend		Quality of Your Software		C 11.00	_	Macromedia	Bring Your Web Site Alive w	th Macromedia Shockwave		B 11.0
	Magic Software	Developing Competitive Edge		E 11.00		Macromedia	Developing Dynamic Web-S			
and complete the booking form.	Magic Software	Developing Competitive Edge		E14.00	E 15.00		Databases - Without Progra		B 13.00	
	Noveli	Development of Directory-Aw		E 15.00	<u>د</u>	Mapinfo Ltd	Enhance your Internet/Intra	anet Applications with		
	Pervasive Software	Supportability the Ultimate To			1	10-1-6-114	Intelligent Interactive Maps		C 10.00	C 11.0
ണല	Outon Cafe and Tasks	Implementing Birieve Based /		A 13.00	A 11.00	Mapinfo Ltd	Enhance your Internet/Intra Intelligent Interactive Maps			
	Select Software Tools	Using Object Technology to M Demands of a Rapidly Changi		C 12.00	C 10.00	Novell	Developing IntraNetWare A		C 14.00	<u>C 14.0</u>
no Tule	Select Software Tools	Using Object Technology to M		012.00		Stacon Graphics	Cosmo - Tools for Creating t			E 12.0
and the second	SCIEN SUITINGIE IVUS	Oemands of a Rapidly Changi		c 15.00 🗆	C 13.00	Sun Microsystems			D 14.00	0 13.0
ompany Name	SQL Software Ltd	Enterprise Configuration Man	-			Synamic	Java Tools for Development		D 15.00	D 12.0
ddress		System Engineers and Busine		A 15.00	A 13.00		Internet Systems Developm	ent : Putting the lechnology		
	Sun Microsystems	Combining Web and Object Te	chnologies	D 12.00					B 14.00	B 12.0
	SYSTEMS FX	Reducing Software Deployme				FT Indian Software Pay	-			
		Through Rigorous Testing		D 13.00	D 14.00	Dewang Mehta -				
	USoft UK	Accelerating your Business Sy	stems into the Internet	Age D 11.00	0 11.00	NASSCOM	Growth of the Software Oew	elonmont inductor la ladie	5 40 00 I	_
	<u>_</u>					BFL Software	Success Stories of Off-Shor		E 10.00	E 10.00
							in India	a soloware neveropment	F 11.00	
						International Informatics				F 14.00
	Main area of activity	Iransport/Freight/	Plations/Operating	No. of Employees	Ternover	Solutions	Off-shore Development and	the Year 2000	F 12.00	F 15.00
ostoode	Education/Training	Distribution	System	1-25	C 0-£1 million	The Karnstska Group		fshore Project Management	F12.00	
I NO.	🗅 Retall	Central/Local Government	Apple Mac	26-100	□ fim - fi0m	Square O Europe plc	Sourcery : The Square D App	management		F 12.00
	Finance/Banking/	🗇 Information Technology	C PC/LAN	101-500	□£10m - £50m	All the second sec	even and i the equate b App		F 14.00	F 11.00
ax No	Insurance	- Construction		501-1000	C £50m - £100m	Fax this bool	king form NOW to	0181 974	5100	
	Manufacturing Chemical Process	🖸 Utilities	IBM AS-400	1001-5000	100m - £1ba					
lebsite	Chemical Process Medical/Pharmaceutical	- Food/Agriculture	Clent-Server	5000+	£1bn+ Public Sector		Queries ? call	0181 541 4	865	
Mail	Telecommunications	- manyeone oct and distant	C Windows		LI FUURC SECUR				000	. •
		🗆 Other						http://www.soft	into ano	

Corporate networks



Intranets

A four-page report on a concept that helps cut the cost of corporate computing

1

A Library Links This "dealing desk of the tuture" was demonstrated last week in New York. The prototype, giving an idee of what traders will be using in the next decade, has been developed by Syntegra, the IT services and systems consultancy of BT and researchers at BT's laboratories in Martiesham in the UK. The desk of the future incorporates intranet facilities and shows how they can be developed in the global enterprise. This week the prototype is being demonstrated to the banking community in Edinburgh

Cross-platform communication . By Tom Foremski

changed from simply installing local area networks (Lans), to converting existing Lans to create intranets internal networks that help give staff access to corporate information and simplify the distribution of data within the organisation.

Intranets provide staff with connections to the Internet: they also bring the potential to lower substantially the cost of computing within organisationa through developments such as network computers - simple computing devices that promise to lower annual administrative costs.

The US computer trade magazine InfoWorld found in a recent survey of businesses that the number of corporate intranets is growing dramatically. In a recent three-month period. 51 per cent of surveyed companies said they had built an intranet compared with about 39 per cent in an earlier survey. "Intranet implementation

is growing far more rapidly than anyone previously thought. Our last study showed that 13 per cent of our subscribers planned to implement- an intranet within 12 months, but this study shows a 31 per cent jump to intranet implementation in just 3 months. This level of significant growth in such a short period of time is truly amazing," says Jim Martin, CEO of InfoWorld Publishing Company.

Tha InfoWorld survey

wiring the office, the focus has New ways to wire up the office Many companies are converting their networks into

intranets which will help cut the cost of computing

ture to the internet and corface for most intranet applications, replacing propriporate intranets as they etary software that often required special training. manage the transition from IPX-only network environments," says Lee Doyle, vice Another advantage offered president of local area netby intranets is that the network technology is cross works and data communicaplatform, so that it can be tions at US market research used with a wide variety of firm International Data Corporation different types of computers. Since large organisations

"As more NetWare cusoften have different types of tomers take advantage of computera that could new Internet and Intranet resources, they can add capabilities without having include mainframes, minicomputers, Unix systems, IBM compatible PCs and to sacrifice their existing Macintosh systems, tying investment in network such diverse platforms into a cess and manage nent' Novell sees a big opportu-nity in helping more than coherent network has been a problem. But internet technologies such as the hyper-

55m users of its Netware Lan software convert their existing networks to intranets, IntranetWare Includes a directory, security, routing, messaging, management, web publishing and file and print services. It adds a web server, Netscape Navigator

computer user to access and share the same information. browser, a gateway between Thereas on the Inter-net the speed of the networking protocols, a mul-tiprotocol router for wide network is a probarea networks, and support lem, most corporations have for telephony and multimefast Ethernet Lans already dia. Once an organisation has in place, making it relatively

an Intranet installed, It easy to create an intranet. Novell, which leads the could take advantage of new market for Lan operating developments such as net-systems with its Netware work computers (NCs). Intel E Internet/Intranets: software and services . By Philip Manchester

Race is on to supply the needs of business users

The speed with which the concept of the Internet has moved from a fringe activity for enthusiasts to a serious proposition for business is staggering - even by the standards of the computer industry

t is little more than a development manager at year since terms like software company Novell. browser', 'network com-puter', 'World Wide Weh' and 'intranet' emerged to describe entirely new concepts of computing. And yet, many companies are already planning to axploit the Mr Forrester. potential of alectronic commerce and adapting conventional computer systems to take advantage of technolalent ogy derived from the Internet. The basic Internet infra-

atructure has, of course, been around for many years. What suddenly made it so attractive was the innovative software that has emerged from companies such as Natscape and Sum Microsystems. The new hreed of so-called 'browser' software typified by Netscape's Navigator that sits on top of the World Wide Weh (the Web) extension to the Internet opened up the power of computing to a wider audience. It made it easier to access complex data from a simple desktop

computer. The next stage ~ now beginning - is to extend this concept of easy access from simple information retrieval to conventional business data processing systems, But thie demands significant

enhancements to the basic Internet 'model' of computing. Security mechanisms, data protection recovery programs and reliable financial transaction systems are all needed on top of the basic Internet technology to make it vishle to carry out business. Manufacturers and software suppliers are rushing to fill the gaps.

The Internet took off because of the accessibility of Web browser software. It is an easy way to access data, Independent of the computer being used. But we see It going far beyond this and becoming an extension of conventional networking," says Mr Eugene Forrester. Intranet/Internet market

working perspective, other suppliers are coming to the Internet with a different systems. Mr Bruce points view. Database management aoftware company Oracle sees the Web and the Internet model as a natural extension to data management and client/server computing. This applies especially when used to build an intranet - an "Companies can use their internal corporate version of existing network infrastructhe Internet. "The intranet presents a ture and install the browser

programs to get the same more compelling cost-benefit easy access to their corpo-rate knowledge-hase," says argument than client/server computing was able to deliver. Client/server is s more complicated method of Novell's move into Internet systems - and the interdistributing computer power nal corporate intranet equivand there are overheads that don't happen with the inter-– is a natural net. You don't need to upgrade desktop computers extension to its well-established role as a networking and install large amounts of software developer. Mr For-



Shanker Trivedi, marketing director at Sun Microsyst ms which has just launched the JavaStation: The shift to network computin the internet and intranets, is occuring faster than anyona thought

rester says that Novell'e software to build an intranet," explains, Mr Rob recently-launched IntraNetware software fulfils many Bruce, marketing manager of the criteria needed to turn at Oracle UK. The intranet offers a simithe Internet Into a viable lar cost model to the old platform for business commainframe systems, he says.

puting. "We have concentrated "This model has never been our efforts on disguising the beaten. The problem is that complexity of the network mainframes are too complex. and building a set of services and cannot cope with the to make secure business demand for new services computing possible. With such as multimedia. But Web technology lets you our GroupWise workflow product, for example, we can span business processes in a way that you could not do offer guaranteed message delivery. We are incorporatbefore. Predictably, Oracle is coning C2 level security and working with partners to fill centrating its efforts on other gaps."

While Novell takes a net-

improve the data-handling features of Internet/intranet out that the basic software used to hulld information pages for the Web can only cope with static data. Updating a price list or a

FT-11 11

product catalogue is labourintensive - "we can use the power of the database to deliver information dynamically. This makes it much easier to keep Web pages up to date"

Mr David Bridger, Internet server product manager at Microsoft UK, echoes Mr Bruce's comment about the static nature of standard Web pages: "You need to be able to get information from different sources and pull it together dynamically cause it is an expensive husiness having it in a static form."

But he also says Microsoft sees potential in other areas of commercial computing with the Internet as the base technology -- "collaborative working, workflow and automating business processes are all helped by Internet technology. You can build electronic communities and enhance the relationship hetween supplier and customer".

He goes on to describe several areas of Internet 'enhancement' on which Microsoft is working: "There is an awful lot going on. We have a number of projects under way which aim to plug the gaps in the Internet to make it suitable for electronic commerce. In addition to support for security and encryption standards, we are building a component-based transaction monitor called Viper and a message queue-

ing system called Falcon. The key is to he able to integrate these components because there are so many processes you need to bring together to do financial transactions over the Internet."

It is of course still early days - both for Microsoft and its rival software suppliers. The real proof of the viability of the Internet as a mechanism for electronic commerce has yet to emerge. It seems now, however, that it is a matter of when expanding conventional rather than if or bow - this database technology to help will happen.

reveals that the most popular reason for creating an intranet is to share or disseminate information within an organisation. The web browser, either Netscape netWare product line. Navigator or Microsoft's Internet Explorer, is becom-

-ć i

-{i

₹.

products, has apotted the enormous market opportunity offered by intranets and recently introduced its Intracosts.

"IntranetWare will help NetWare users extend their ing the standard user interexisting network infrastruc-

text mark-up language

(HTML) standard for text

presentation, and the TCP/IP

communications protocol.

allow standard web browsers

to be used by virtually any

jects. estimates that it costs an With ready access to the average of \$8,000 a year per Net, staff can more easily PC-user In administrative research information and communicate with peers in The idea behind NCs com-

other locations without the puters is to use an intranet to push most of the process-ing power deep within the restrictions of proprietary Lans.

Groupware . By George Black

network and limit the ability

of users to install their own

software which has a risk of

While NCs will not replace

desktop PCs, they will pro-

vide greater access to com-

puting resources. And, cost-

ing as little as \$300-\$500

each, they will allow corpo-

rations to give more of their

etaff access to computera

The popularity of intranets

signifies a move away from

the standard client/server

network model; many com-

panies are developing cus-tom applications that make

use of intranet technologies.

At the US firm Sybase, for

example, intranets are used

to handle changes in human

"Formerly, if a staff mem-

ber was moved or someone

joined the company, they

would have to fill out a lot

forms which were then input

into the computer system

several days later. Now this

is done hy the staff member using an electronic form via

a etandard web browser,"

Other companies report

that intranets allow their

staff to set up their own web

says Sybase.

resources information.

and corporate data.

virus infection.

A flexible route to network 'plumbing'

Building an effective Intranet will sometimes mean adding routers. bridges and hubs which handle the network "plumbing".

A key trend is in stackable hubs - these hubs connect and act as tha connection between local area networks (Lans). Hubs used to he complicated pieces of equipment requiring a reasonable amount of expertise to set up and manage. But this is changing as companies bring ont stackable hubs that can be as simple to use as plugging in wires

and running installation software. Stackahle bnbs are a cross between the more complex and larger chassis-based hubs and simpler standalone hnbs, with some of the best features of both. Stackable hnbs are now available for all types of networks such as Ethernet. or Token Ring. And they have a small 'footprint' which makes them useful for smaller offices. Futhermore, stackable bnbs can be comhined to grow with a company and allow users to expand their networks. - Tom Foremski



THE INTERNET, INTRANETS AND THE WORLD WIDE WEB

Many orga anisations are now deploying private webs o corporate intranets as the information creation, distribution and management systems of the future. WebDay 96 focuses on the leading software produ technologies that will make it all heppen.

At WebDev 96:

- . Discuss your requirements with the industry's leading internet and intranet suppliers at the WebDev exhibition or in the strategic product seminars,
- · Hear from the leading business and technology experts on how to maximise the intraset for your business advantage at the Intranet 96 conference.
- · Discuss outsourcing your major development projects to \$ of the top Indian Software Development Companies at the
- Financial Times Software Development Pavilien.

Cast 0181 541 4865 NOW for further details or e-mail softworld@softinfo.com

Service provided by the interactive Group

Market swiftly brings products into line

Lotus, the groupware market leader, has been the fastest to respond to the spread of corporate intranets

The groupware market intranet. Earlier this year illustrates the diffi- there was much speculation culty that even the most dynamic software developers have in keeping up with the pace of technoogical change. Microsoft planned its

Exchange Server to topple Lotus Notes from its perch as the top product in this field. But while it was developing the software, it failed to anticipate the rise of the Internet and the spread of

corporate intranets modelled for publishing, but group on the internet. ware beats it for collabora publicly converted to supporting the Internet, hut its change of policy came too Futures and author of a late to enable it to shape Exchange Server to overhaul

Notes. Lotus Development was quicker than Microsoft to on the Internet is often unrerespond to the shift in the liable and getting the tools direction of the industry. It was able to call on IBM. husiness applications is not which took it over last year, to help fund the development of new software to meet tha requirements of the Internet and intranets. So Lotus, which has dominated the market for the past six years, looks likely to be able to continue to do so for another few years. Virtually all groupware suppliers are bringing their products in line with Internet standards. Lotus has managed to do this by introducing a program called

that Notes' position was threatened by intranets. All the elements of groupware appeared to he available on the Internet either as freeware or at very low cost. However, after further comparisons of the costs of the alternative systems and the launch of Domino, the prospects for Notes have been revised in its favour. "The intranet is excellent

ware beats it for collabora This year Microsoft was tive working," aays Mr Roger Whitehead, director of the consultancy Office

report on the subject pub lished last year hy Camhridge Market Intelligence. "The groupware available to work together to produce easy," he says. A Xephon

survey this summer showed that use of the Internet is more likely to complement Notes than replace it. "The Web absolutely does not make Notes obsolete." It summed up. Lotus's Notes marketing manager Mr Jim Moffat regards the intranet as the

"only real competition" for Notes, but believes that Domino has secured it against that threat. Ha expects the majority of Domino which allows users to convert Notes into an Continued on next page

BRA TRANSPLA made easy.

Get your ideas across with an in Focuse projector. It'll instantly

project what's on your

____ · · · ·

· ..

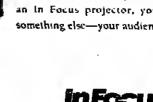
computer screen to an entire room full of people. With all the brilliant colour, sound and attention-grabbing animation in today's multi-media software. You can even project video from a VCR.

And no one makes projecting easier than in Focus. Our products are easter to connect. Easter to use. We've even made them easier to alford. And since we're the world leader, we have a wide selection of models to choose from.

But best of all, every time you plug into an In Focus projector, you plug into something else-your audience's head

> in focus Take a test drive: 0500 213300 or http://www.infocus-uk.co.uk/infocus

Estroyesa Head Office Planeteneury 91, 2132 HL Hoofsdorp, The Netherlands Tel. +31 23 5023200; Fax, +31 23 502438 in Focus Systems, Inc. in Factor to a reasoned understate of its Factor Systems, Inc. All other methods are transmissed in factor



12 FT - I T

XII

Business applications for Intranets . By Rod Newing

ntroducing an intranet will allow organisations to extend, cost-effectively, the reach of their msin packaged business applications to a whole range of new users.

Existing power users of accounting, manufacturing. distribution, sales and marketing, and human resources systems will continue to use the full desktop software, called a "fat client", supplied with their client/server systems. However, browser access to packaged business systems can be given to a wide range of casual users within and outside the organisation.

The intranet expands the scope of the enterprise application because anybody on the network can access it, says Jim Johnson, lead architect for web services at business application vendor Dun and Bradstreet Software (http://www.dbsoftware.com).

Somebody in the human resources department would continue to use their full client, but other employees would use our Java applet (see buzzword definitions. page one) to update their personnel record

Microsoft (http://www.mi parts of the intranet. Web crosoft.com) is already Customers provides sales Microsoft (http://www.mi-

🛢 Groupware market

Continued from page 11

structing an intranet.

consultancy

aboad

Notes users to adopt Domino

as part of their plan for con-

Lotus's strategy seems to

have won the opproval of

experts. "I think they have

got it right in integrating Notes with the Internet."

says Mr James Eibiech,

senior analyst with the Input

Although it is not impos-

sible for an existing supplier

(Microsoft, Novell or Oracle)

or a new competitor to over-

take Lotus, the probability is

that Notes will retain the

leadership in groupware,

with a gradually reducing

share of a growing market,

for a considerable time

channel.

accessing SAP's R/3 financials through its intranet. It has 1,400 users of its worldwide financial system, but has written an application using its own intranet tools which has allowed a further 12.000 employees to raise requisitions and get them approved before sutomstically entering them into R/3. However, vendors them-

selves will soon be providing these tools. Oracle (http://www.oracle.com). the detabase and application vendor, bas recently announced a series of Web extensions to its packaged applications. Web Employees offloads administrative intensive work from

support staff to the employees themselves, such as job application processing, rais-ing purchase requisitions and expense reporting. Oracle will also extend use to customers and suppliers, through secure access to

order entry, inventory and functionality. It is also planaccounts receivable, allowing a customer to check product availability, place an order, drill down to the carrier to track its progress and monitor its account to check invoicing, credits and payments. Web Suppliers allows supply companies to access The system is workflow tasks

intuitive, so These extensions have a number of benefits. They reducing the reduce costs by allowing direct input of data, rather need for costly than tying up customer service and data input staff. training Oracle has already reduced the internal cost of processpurchase orders, check ing a purchase order from

\$100 to \$15. inventory levels, payments, manufacturing schedules "We can control who is and view their supplier per-formance statistics. buying what and get better deals from suppliers," says These are the first tranche Greg Harmon, Microsoft's

of 50 applications from Ora-cle, while SAP (http:// SAP project manager. With intranet access, information is available to totow.sap-ag.de), the leading partners at any time, not integrated application vendor, is developing similar just during working bours.

Ease-of-use is a key factor

Intranets allow a whole range of new users access to business applications. But there are still

technical problems, particularly with transactions outside the organisation The ease-of-use of a ning employment opportunibrowser interface compared ties, electronic corresponto a traditional graphical dence, bank data transfer, user interface is important, as it is costly to train just-in-time stock levels, employees and suppliers. plant maintenance informaand customers cannot be tion, product quality certificates, help calls, project trained. Oracle refers to this situation as "switch on and progress, employee direcuse". In 1995, Silicon Graphtory, ad hoc financial reports, overhead allocation ics, the visual computing activity levels and simple company, developed its own Pole Vault (http: // lurch.corp.sgi.com) technol-

ogy to allow enquiries to a range of legacy business applications across its intra-"No training was required

because of the intuitive Netscape interface," says Bob Zalusky, information technologist. "People are already familiar with the browser and only have to learn the business process. When we replaced our legacy systems with Oracla epplications, the interface didn't change, no further user training was required and productivity was unaffected

Case study & By Rod Newing

A quick fix

An intranet at Dixons, the consumer electronics retailer, has improved customer service and reduced costs

The rapid installation of an intranet was a priority for Mr Keith Martin-Smith, Dixon's newly-appointed PC service director for its Mastercare customer support rganisation.

"I wanted to improve service levels quickly and easily," he says. "The company already had a Wide Area Network to link our point-of-sale terminals, which was running the TCP/ **IP** Internet networking protocol, so it was easy to connect our PCs." Dixons is a leader in its field, with 800 outlets, including its PC World superstores. It took only two 'man weeks' to install browsers, to enable the file server with Windows NT and Microsoft Internet

Microsoft is working to Information Server, and to improve transaction integbuild a two-page Web site, using Microsoft's Front Page rity. Early in 1997 it will authoring tool. The site has links to each hardware and that any transaction is fully software vendor'e own modules. Also, using its two main object technologies, external Web site.

the Distributed Component Knowledge-base Object Model architecture embedded in Windows NT "Overnight, I gave 200 Server 4.0, its server operatechnicians a co nection to ing system, and ActiveX, managed Web connections the outside world and we had everybody 'intranet can be made without using capable' in four weeks,' ays Mr Martin-Smith. The dream of using a net-"It didn't take massive

resources and the cost was almost zero. We immediately increased our knowledge-base and the speed of our problem-solving, because we could get information and software fixes or upgrades direct from the vendor's

Web sites. **Dixons Mastercare** have added to the site solutions for predicted problems for new products, and the service arrangements guide for each vendor. Any technician can post solutions to a "problem" section where it becomes immediately available. Managers draw up staffing rotas using

Microsoft's Excel

spreadsheet so that they can be converted to HTML, the Web format, and posted on the site. The engineers use e digital camera to record physical changes to products they support and will add video and animation of common

upgrades later. All the PC World stores are being added to the intranet. The first application will book an engineer's visit the following day, "It takes away the pain at busy peak times, such as lunchtin queues in stores," says Mr Martin-Smith.

"We are still amazing ourselves with what we can do with Front Page when designing Web page enthuses Mr Martin-Smith, but we have outsourced the design of more graphical pages which will make better use of Microsoft's ActiveX technology when customers are given access to it."

1 DT25236 - 525 - 525 - 525

less prote

Mastercare is also developing a pilot site using a beta of Merchant Server, Microsoft's electronic commerce software. Dixon's experience is that the intranet requires very little support. "We had to develop skills quickly but our networking staff easily made the transition," says Mr Martin-Smith.

"The ease of use and integration of Microsoft products makes the cost of developing an intranet verv low, because we can set it up in man weeks, not man months," be explains. "It isn't rocket science - and with good planning there is no risk to the company or its data.

"By using the intranet we have improved customer service and reduced costs simultaneously, something which is rarely achieved in any other medium. The opportunity to use the intranet is endless and we bave yet to discover its fall potential."

WW DUMPTER

CMI's report on the subject found thet it had drawbacks: "It is a devourer of resources, both human and technical - and needs attentive supervision if response times are not to tail away." But it concluded that 'Lotus

Meanwhlle, Microsoft uct" needs either a radical

Plenty of scope for development upgrade or a replacement of Exchange Server, saye its user base in the past Offices Futures' Mr Whiteyear, achieved by a hig price bead. Notes gained its lead cut which IBM'a chairman by coming into the market Mr Lou Gerstner authorised first, offering a wider range of features than any other to increase market share. ndor and succe ding with sales through the indirect

It quickly won e lot of sup-6000 and AS/400 servers. port from large organisations and other developers Viewpoint who adopted it as a platform Mr Gerstner is said to for their own applications.

regard Notes as fundamental to IBM's future and he has therefore given Lotus plenty of scope to develop the product as it likes, while imposing a stricter business culture on the new subsidiary. Another potential threat Notes is the groupware prod-

to Notes which has been much discussed this year Lotus now claims 6.3m

has been building groupware features into its Navigator browser software since its acquisition of Collabra Software last year.

The next version of Navigator (code-named "Galileo"), due for release by the end of the year, is expected to include all the functions of Share.

Analysts bave doubted whether Netscape has sufficient resources to devote to groupware at the same time as battling with Microsoft for control of the browser market, Bnt Mr Serge Berncomes from the Internet development, says that the do so.

Notes licences, a trebling of browser vendor, Netscape. It integration of its products with Collabra's will enable it to compete with Lotus.

He believes there are work computer for all software interactions is still a many companies in which Notes is used only on a limlong way off. "The power of ited scale and for complex the Windows environm impossible to deliver in a

These companies will also be looking for cheaper and simpler groupware and hrowsers to ssrve many more of their staff, he says, and will therefore be keen to run Netscape programs alongside Notes

There is certainly still plenty of scope for growth in the gronpware market, if computer users can be convinced of the benefits of the software. Xephon's survey found that only 32 per cent ard. Netscape's director of of sites used groupware and European intranet market 44 per cent had no plans to

application strategies at analysts Forrester Research (http://hmmo.forrester.com). The power user benefits from Windows integration for query, decision support, spreadsheet and OLE auto-mation. The heavy duty Windows client will remain until the browser can duplicate it, which will take

years. The 'thin client' doesn't exist in this context." A thin client is a Continued on facing page

It is important to draw

distinction between Lan-

based intranet access and

wider Web-based access to

business packages. A World

Wide Web connection is not

continuous because the con-

nection ceases when a page

and is only re-established

when the user clicks on a

link to another page. It is

also subject to interruption.

go in technology develop-

ment before we have serious

transactions on the Web,"

says Ashim Pal, senior con-

sultant with analysts Ovum

(http://www.opum.com).

recover from an interrupted

transaction, so until Web

servers can handle transactions properly, this is beyond reach."

launch its "Viper" transac-tion co-ordinator to ensure

posted to all application

browser," warns Bobby Cam-

eron, director of packaged

existing protocols.

Web technology cannot

We have quite a way to

has been sent to the browse

Collabra, founded by an The company's target is 30m users by the end of 1998. ex-manager of Lotus's E-mail applications. spanning not only personal computers but also IBM RS/ team, launched its Share groupware system in 1994.

New directions: intranets



FINANCIAL TIMES WEDNESDAY NOVEMBER 6 1996

Some companies in the retail, banking, travel and leisure sectors lost 18.2 million customers* last year because they delivered a poor telephone response.



THE RIGHT RESPONSE FOR BUSINESS

Are we getting through to you?

More importantly, are your customers' Because it you aren't benching from the up to date features which come with a modular communications platform, you can be sure they aren't.

Some 36% of sustomers who fall victim to badly handled calls would simply prefer to stop dealing with these companies. Poor response times, inefficient routing and getting cut-off, are just some of the problems that you can eradicate by investing in the right solution.

INDEX is that solution. No matter what size your business - no matter whether you're after PABX, keysystem or call centre - and no matter what your hudget.

With INDeX you can take customer service to new levels. Features like voice processing, call queuing or full-blown call centre facilities will meet the needs of your customers quickly and efficiently. Also, as INDeX caters for up to 600 users and beyond, it will grow as your company and customers grow

So call us TODAY on 0800-282726 for further information on INDeX and to find out why this British Digital Communications platform has doubled SDX's market share in 12 months. We promise not to cut you off, ignore the phone, put you through to the wrong extension...

"Data lumpi upon The Hanka Comm Televation Lation - Report 144

10,000 reasons why the world's largest company chose TeamWARE

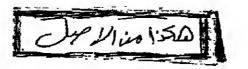
At NTT's Shinjuku Headquarters in Tokyo, 2000 TeamWARE Office users are communicating with each other, sending and receiving over 10,000 e-mail messages every day. When choosing an IT solution for their

e-mail, resource scheduling and information publishing needs, NTT had a number of requirements. Firstly they needed a solution flexible enough to support an initial 2000 users expanding later to a potential 4000 users. Secondly they needed a solution that could support a mixed community of PCs and Macs, and thirdly, they didn't want to spend large amounts of time or money training their staff to use the new system.

The solution that met the requirements was TeamWARE. The TeamWARE Office suite of groupware tools is; scalable, supporting users numbered from tens to tens of thousands, platform independent, supporting all major operating systems and so easy to use that NTT needed to train only 3% of their staff, who were then able to train their colleagues.

TeamWARE helps staff at NIT communicate and improve productivity. To find out more about how TeamWARE's intranet solutions can give your business the edge, visit our web site http://www.teamw.com, send an E-mail ccenquiry@teamw.com or contact us on the numbers below.

Testdrive TeamWARE on the www Alexandre HEDRAW CHANGE COUL Phone 01344 473616, fax 01344 472442





Good action from the contract

٩.

24

.....

 σ_{ij}

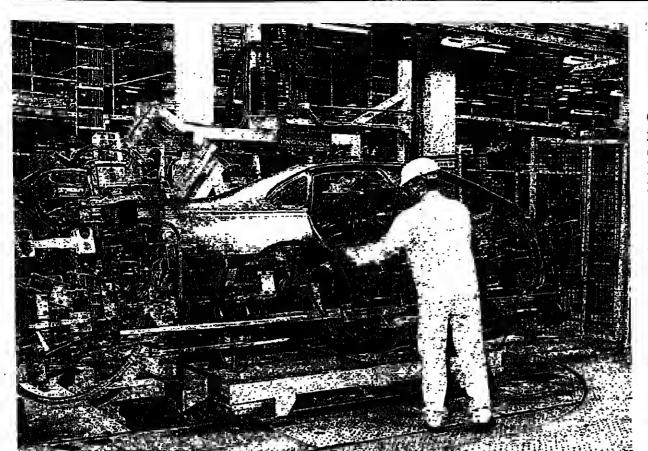
<u>ان د</u>

22 رخوا ا 12.1 9 1.51





New directions: intranets



its and suppliers no longer need werful PCs on their desks to access is' Amazon to create an intranet to link its factories with its parts suppliers

Database applications • By Geoffrey Nam

Less problems for IT staff

Software houses are rushing to meet the demands of customers moving their databases on to intranets

be ease of use and low cost of web technology are powerful arguments in favour of moving database applications from existing networks to an Intranet, But transforming corporate data into web pages is not straightforward and the software industry is racing to develop tools to ease the task.

Many of today's business applications, such as accounting or retail point-ofsale systems, depend on data stored in corporate databases running on main-frames or client-server systems. By building an intranet and moving these applications on to a web server, complexity and costs can be cut a stroke.

Users no longer need powerful PCs and applications bouse.

cut-down systems are designed solely for browsing and thus lack the local storbrowser, and while the priage and complicated features of today's PCs, so reducing mary market is Oracle users, tbe company this year unveiled new "cartridge" their price tag and support costs, "With an intranet, the database delivery mecha-nism has changed, Users do technology to allow Oracle not need a local 'mainframe' non-Oracle databases on their desktop or software that resides locally." says Mr Andy Bailey, Oracle market-

ing manager. Silicon Graphics built an intranet to give its sales staff database technology. But cheap and easy access to corthey are losing ground in porate data. "We are able to leverage our data warebouse investment and extend the reach of this information intranet and worldwide, without making moving a buge networking investment," says Mr Mike Graves, chief information officer for

Silicon Graphics. The US workstation company is using a new webserver, costs enabled version of the BusinessObjects decision can be cut support software, from Frencb company Business Objects, to allow several their traditional client-server bundred intranet users to market to Microsoft, whose access sales and marketing Windows NT operating sysinformation in its data ware-

es are

1000

An interesting long-term between the client and

Marcam, to produce high client's business processes

erver. The intranet looks like

being good news for consul-

tants, who can now start

planning to revisit all their

past business process re-en-

gineering projects. They will

agoin to make use of this

new functionality! Neverthe-

less, the intranet does offer

the opportunity to use exist-

ing applications to increase

reducing costs.

customer service while

soon be able to change their

users to conduct transaclink to a corporate database, tions on a corporate dataeither its SQL Server or base directly from their web rivals such as Oracle.

Other companies bave developed similar products and many interface the database to a web server using a standard called Open Data-Base Connectivity (ODBC). Web Server to integrate with This is easier and quicker Oracle and other leading than developing a custom application, though critics database vendors, such as Sybase and Informix, see claim the extra layer of intranets as s natural exteninterfacing software slows sion for their Unix relational down the applications. "There is a slight time

penalty, but it all depends on tbe database you are are using," says Mr Randy By building an Anderson, marketing vice president at Stormcloud Development. whose

WebDBC product is an example of an ODBC-based applications web application development on to a web

US engineering firm Bechtel uses WebDBC to allow regional managers to get the latest financial information from an Oracle data-

base simply by checking the appropriate segion of a map on their browser. Telecoms company US West used WebDBC to write a webtem and SQL Server database provide a cheaper solu-

European pacesetters . By Geoffrey Nam **Competitive benefits**

Corporate intranets have caught the European imagination

.

urope has tradition-ally lagged behind the US in its adoption of intranets could develop more rapidly in Europe than the the latest information technologies. But with corporate is a competitive advantage intranets the gap is closing rapidly as European companies warm to the benefits the technology promises over their existing networks. "European companies are

very interested in what intranets can offer and the he predicts. gap in deployment bstween the US and Europe is fairly limited." says Mr Ashim Pal. senior consultant at Ovum, the UK-based IT consultancy firm, which plans to publish an intranet report in Decem-

This strong interest in intranets contrasts sharply with the lukewarm attitude of many European busises to the public Internet. According to a survey commissioned by Digital Equipment, interest varies by country with most enthusiasm coming from UK and Scandinsvian companies. Almost half the German and French companies polled believe the Internet is overbyped, while in the UK, the sceptics are outnumbsred

two to one. "Information on the Internet is mostly in English and this will always be an impediment to the Internet's growth. Intranets do not have this problem as companies can create them in their own language," says Mr Paul Evans, marketing director with Digital Equipment

Europe. As well as the language barrier, European Net surfers are handicapped by sometimes creaky infrastructure and the afternoon slowdown when North American Internet users wakes up. According to the Digital survey, 24 per cent of European businesses believe their Internet infrastructure will

be used primarily to access

based belp desk application

Rather more. 27 per cent, larger intranet, called Knowpredict their browsers will ledge Galaxy, that links be pointed internally, run-17,000 Cap Gemini staff and ning powerful applications runs on 40 servers distriband accessing corporate data uted throughout the group. Staff can quickly find and on private intranets. The figures for US busiretrieve case studies, design

nesses are 38 per cent and documents and reports just 16 per cent, suggesting regardless of location. "If they have no idea "Europe has realised there simultaneous search across all 40 servers," says Mr

Keith Turner, technical in using intranets and does not want to be slow off the director at Cap Gemini's UK ground," says Mr Evans. By subsidiary. Knowledge Gal-2000, intranets will take 80 axy uses the Fulcrum docuper cent of the European ment management system, market for Internet software, which allows documents to be sccessed in their original form - as a Microsoft Word As in the US. Europeans

are taking their first intrafile, for example. An alternanet steps with simple spplitive is to use a web-based cations, such as information search engine, such as Digipublishing and documant tal Equipment's AltaVista



aff working from stored on a web server via a PC and modern

ment. Here, the techsoftware, but then the information must be converted nologies are relatively stable into web pages. "A lot of things, such as presentations, lose their value when converted to web pages," says Mr Turner. Many IT vendors are build-

ing intranets to improve Cap Gemini, Europe's largest computer services group, information flows and showused an intranet to eliminat case technologies they can the mountains of unread offer to customers. Digital memos and other paper on desks. Documents are now stored on a weh server and can be accessed by any employee using a standard browser. Staff working away from their office - at home or on a customer's premises - are not left out and can access the same documents on the company's intranet using a PC and modem. The

Microsoft Windows NT. Via the intranet, researchers can access articles, news and external Web sites, or debate topics in "discussion areas". sharing experiences and project results with colagues

FT ---

 $\times m$

13

Previously, there was no central repository of inforwhere the information is mation, so researchers located, they can run a wasted time looking for information perhaps available in-bouse. The intranet has also improved research management by giving project leaders instant access to administrative data, such as man bours spent and procurement requests. "Project leaders can focus more on technical problems than ou administrative issues," says Mr Claudio Adriani, Olivetti's director of technology strategies, who claims productivity has also increased.

Interest in intranets is growing beyond the IT industry.

Kvaerner, the Norwegian conglomerate, is construct-ing an intranet to belp integrate its growing business mpire. Last April, Kvaerner acquired the UK company Trafalgar House and the first stage of its intranet will link its Oslo headquarters to the new London offices.

Additional servers will later be installed in Houston, Singapore and Sydney to act as communication hubs for a giobal intranet linking 40.000 employees in 400 offices. 'Our main goal is to achieve effective information flow throughout our operations. says Jorgen Piene, Kvaerner's technology director. The intranet servers, supplied by Digital Equipment, will run Microsoft Windows NT

Other intranet pioneers can be found in Europe's pbarmaceutical industry. where a wave of mergers has caused companies such as the UK's Glaxo Welcome to look at using the intranet to improve information distribution and collaboration between their many European sites,

Elsewhere, the clothing firm Levi Strauss bas a project to link 60 per cent of its European staff using an intranet.

and the risk of failure limited. "If the intranet does not work with these applications then the business will still survive," says Mr Pal. The Dutch subsidiary of

the public Internet in 2000. Dutch project is part of s SNX server system and

Equipment, for example, has an intranet linking 1500 servers worldwide. One of the first applications to be put on it, 18 months ago, was the internal telephone directory. Italian firm Olivetti has built an intranet to connect its research labs in Italy and abroad. It uses Netscape

Communications Server software running on an Olivetti

TODAY'S DESKTOP.

programs, whose ins lation and support cause IT departments blg beadaches. Instead, they access webbased applications and corporate databases via cheap, simple-to-use browsers that run on any computer - Netscape's Navigator works on 16 different platforms, for example.

Oracle, the leader in client-server database software, takes the cost cutting further and proposes companies equip their users with \$500 network computers. These

Continued from page 12

networks.

stripped-down PC (a low-cost

NC) designed to work across

However, occasional users

may find that the thin client

puts on weight rapidly. "In

order to bave value, the

browser has to get bigger to

support groupware." argues

Mr Pal. "This means it gets

larger and more like an

existing client. People will

find out in two years that

they have the same level of

complexity as a fat client."

rushing to adapt their database software or tools to work over intranets. Oracle. for example, bopes to increase its dominance of the high-end Unix database market with software to allow companies to move existing client-server applications to the web or build new applications for their intranets. The company has developed its own web server technology, included free in the next release of its Oracle datebase. This allows

Many software hous

Good news for business consultants

solution to these problems is

IBM's San Francisco Project

(http: //www.softmall.com/sf).

IBM bas teamed up with

more than 50 software devel-

opers, including Computer

Associates, Dun and Brad-

street, JBA, Lawson, IBS and

level application frameworks

using Java, Sun's new inter-

net programming language.

These basic frameworks will

be adapted by each vendor

for its own market and con-

figured across the network

FT

FINANCIAL TIMES

Financial Publishing

VIRTUAL FINANCE IS MOVING FAST.

SO ARE YOUR COMPETITORS.

Internet banking 🗮 E-money 🖩 EDI

Online financial services

FT Virtual Finance Report is a new, pace-setting monthly newsletter

support staff.

The UK company Intelli-This trend is even stronger in intranets and a growing gent Environments spurns the ODBC approach to number of web servers use Windows NT instead of accessing databases, which Unix. The Unix database it claims can reduce perforvendors have responded mance and security. Its with cheaper databases and Amazon tool, which runs on intranet access products for Windows NT or OS/2 Warp, Windows NT. but they face can directly access a wide strong competition. Microrange of corporate legacy soft, for example, is trying to databases and transaction establish its BackOffice techprocessing systems. It stands nology as a platform for corout for its use of artificial norate intranets. It has intelligence to implement developed FrontPage to business rules and procebuild web applications that dures, so allowing companies to build web applications that more closely match their business needs.

In the UK, Honda Manufacturing is using Amazon to create an intranet to link its factories to its parts suppli-

ers "Electronic data interchange (EDI) has not taken off really well and the web potentially can replace it," says Mr Tony Ooschalk, marketing director at Intelligent Environments. The tools to move data

between databases and web pages are immature, analysts warn, and require much manual fine-tuning to work effectively. The main problem is that the two worlds are essentially incompatible. The intranet is

designed to handle unstructured content - text, sound and images - accessed randomly from web pages; a relational database, by conrast, contains highly struc tured data organised and accessed by rows and col-

umns. Object technology may provide a better bridge between the two worlds. The object-oriented language Java already allows browserbased mini-applications called appleta to extract their data directly from a corporate database via the intranet (see cover story).

Object Design, a leading supplier of object database software, claims relational databases are simply unsuited to building intranet applications. It maintains object technology is better at handling the complex relationships between multiple data types. such as text, audio, video and image. Web sites on the Internet increasingly use a variety of types of data to present information in different ways and Object Design argues corporate intranets will soon follow.

TOMORROW'S ECHNOLOG

The Elonex Low Profile Desktop PC is a deceptively slimline machine. Less than 11 cm deep, it already exceeds the internal capacity of many bulkier computers. Better soll, it has been built with fast-changing chip technology in mind. It accepts all Intel's Pentium ® Pro processors and will handle tornorrow's even faster and hotter CPUs. Upgrading has never been easier - with simple two-screw access and a standard-scre motherboard, the Floney PC-6200H/I has been designed to let you take maximum advantage of new developments, as they happen.

And while you're waiting for technology to catch up, you'l have some impressive features as standard and a flevible range of configurations to choose from. All in an elegant desktop

THE ELONEX PC-6200H/I

Ahead of the game

insi

PENTIUM.PRO

Logo are tra

- 200MHz Pentrum Pro processor with 256KB L2 cache
- 32MS EDO RAM (expandable to 256MS)
- 1GB IDE hard disk drive
- Dual PCI EIDE Mode 4 control
- Up to 5 expansion slots (2 x PO, 2 x ISA, 1 x PCI/ISA) 4 drive bays
- · 64-bit PCI graphics accelerator (2MB video RAM as standard)
- I 5-inch non-interlaced SVGA monitor
- Keyboard and Microsoft mouse
- Pre-Inaded with Windows NTTH Workstation 4.0.
- 12 months exendible on-site maintenance (UK mainland only)
- Access to unlimited technical support.

£1,395 (£1,639.13 inc.VAT)

e brievet PC e are republicaded with Warringer NT[®] Why ubject to change without native Mintonali a a registered trademark. Windows 95, Windows NT are tradem

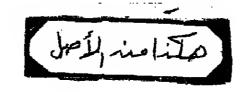
aten. The intel leads load and Pendum are required trademarks and the Pendu

on 4.0

Tel 0181-452 4444 Fax: 0181-452 6422

Bradford Tel: 01274-307226 Fax: 01274-307294

Comborneoid Tel 01236-452052 Fav 01236-452254 loaex os the

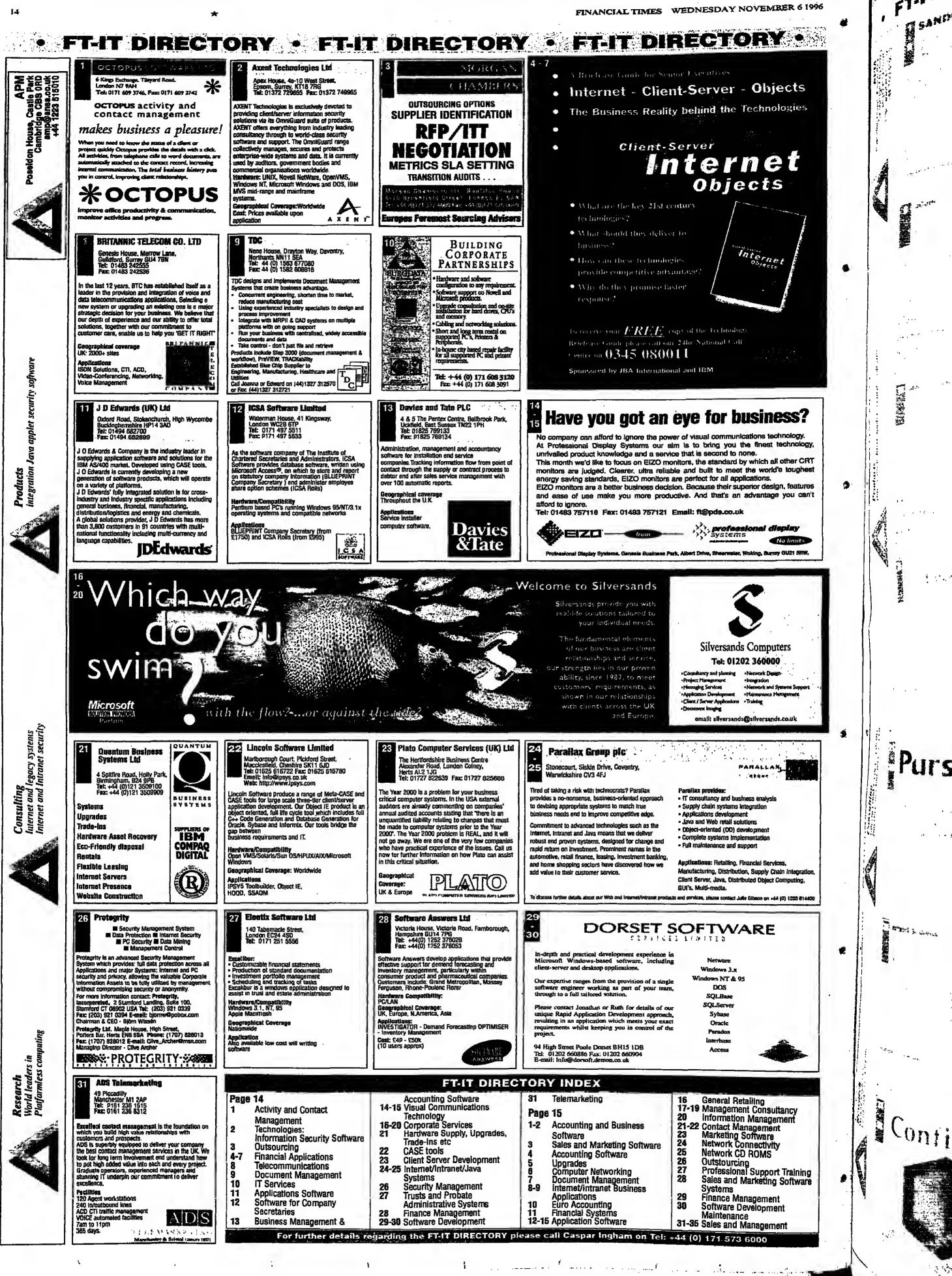


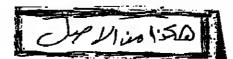
providing timely and accurate information on and expert analysis of: industry trends competitor moves market data E customer behaviour technological innovation ■ regulatory issues ■ security ■ strategy ■ case studies

З.

Subscribe now and take advantage of our special launch price of £495/US\$743(UK) £525/US\$788 (Worldwide)

Call us now to subscribe or ask for more information on +44 (0) 171 896 2314 or fax +44 (0) 171 896 2274 You can't afford not to.







Learning with the state of the

31 35

9

Configurable Industry-Focused Solutions

K & V are Europe's largest sales and marketing solution provider, organised by vertical market and with a rapidly growng global presence. K & V deliver state-of-the-art, open, scaleable sales and marketing solutions that are completely configurable to precisely meet the needs of our corporate Clients. Through comprehensive software and industry competence, K & V assist Clients in creating and sustaining vital competitive advantage.

United Kingdom K & V Information Systems Ltd. **33 Blagrave Street** Reading Berkshire RG1 1PW Tel: +44 118 952 7700 Pax +44 118 952 7710

United States K&V Information Systems, Inc. 70 Walnut Street Wellesiey MA 02181 Tel: +1 617 239 8085 Fax: +1 617 239 8001

Germany Kiefer & Viettinger GmbH Unternehmensberatung EDV Willy - Brandt Platz 3 68161 Mannheim Tel: +49 621 1255 0 Fax: +49 621 1255 170

SOLUTIONS FOR CHANGING CORPORATIONS

- -----

16 FT - I T

Software solutions . By Rod Newing

In sales, it's grow or die

Integrated sales and marketing systems are still not being used by many businesses - and even those that do use these software packages are not receiving the full benefits

tion technology for their sales and marketing. The latest Softworld survey for sales and marketing systems (http: //www.softinfo.com) shows that 81 per cent of respondents, down from an astonisbing 95 per cent a year earlier, perceive a gap between what is possible and

what is being achieved. However, only 31 per cent of them are using an integrated sales and marketing system and the majority (51 per cent) are still using con-



Sales and marketing

systems

tact management software. Integration with existing systems is considered the higgest barrier to implementation,

"Organisations" tend to expect an all-embracing sys-tem to be delivered on day one," says Wendy Hewson, a principal in Hewson Consulting Group, (http://www.hewson.co.uk), a specialist sales and marketing IT research group, "Political and technical factors in some compa-

rganisations are still nies are leading to an indefi-not realising the nite postponement of imple-benefits of informa- mentation with consequent mentation with consequent loss of benefits." The benefits are in making sales and marketing more efficient and effective, as well as in making better use of the different resources

Nordproce

Mobile phones

tation software Portable PCs/laptops/palmtops

Internal E-mail system

5. 14. 15 A. 15. **Contact management software**

1. The Part of the

Integrated sales & marketing sy

the second second

The internet/world wide web

Marketing database som

Lend tracking software

Mobile Gala communications

THE TO CARLENS AND

Postcooling (PAF) software

ierieling aoftware

ad market re

ino packag

· · · · · · dsheet package Section 2. Sector

availahla at appropriate points in the sales process. "These aystems are very easy to use," says Clive Burrows, co-author of Ovum Evaluates Sales Force Auto-

motion, (http:// www.ovum.com), "so the salesperson only needs to in the leader of the leader know bow to connect the cahle in a hotel room. Once and a grad in section of they see the benefit, they Sorborate intrahet will use the system more and more. This will give the marketing department better Call contre/CTD-system information, so the produc-tion department will start to get better forecasts. They Geographic Information sy will get more faith in the 1.1

figures because they can see more information. "At that point, everybody wins, especially the salesman, who will have to complete fewer reports."

Nevertheless, the functionality of the packages available is holding back more progress to date." widespread adoption of sales and marketing software. "The US is more advanced than the rest of the world," "Activities such as contact reports Mr Burrows, "In management, sales activity Europe the only major playreporting, direct mail and ers are Point from Germany telemarketing are simple mechanistic tasks which are (http: //www.pointinfo.com), which is strong on call cen-

well-supported by systems," tres, and Oxygen (tel: 44 explains Mrs Hewson. (0)181 740 7440) from the UK, "Systems for these bave which has a kit of parts to huild the system you want." Most organisations are not been available for some time and users requirements are well-known and catered for. migrating to more modern However, co-ordinating an packages, but replacing organisation's contact stratin-bouse systems. This sugegy with a customer or prosgests that the market for pect across the most cost-efpackaged software is relafective marketing channels, tively immature. typically involving direct "Siebel (http: //www.siemail, telesales, different teams of field sales representatives or distributors, is

bel.com) will be the market leader," predicts Burrows coauthor, Beth Barling-Twigg, very difficult to do well. "although they are still new Systems have made little and don't yet bave a full

However, a sophisticated sales and marketing package is not easy to implement, because of the range of tech-nologies involved. "We are

ating technologies in use now and the coming year

been little growth from 1994 Mr Burrows. to 1996, with fewer but more sophisticated systems being sold. In 1998 and 1999 sbe predicts rapid growth as a result of product strength

2.3

N SR

\$

There we

and increased competitiveness between users. "A trend will emerge of switching from outsourced operations, such as telemar-keting and direct mail, to internal systems in order to get ownership of data and a single customer view across multiple communications channels," she predicts.

advising organisations very tem, yon need it quickly and in-house staff will take 18 strongly not to implement systems themselves," warns

months to get it wrong. Using the vendor will be fas-With client/server, a data-

E Support for the sales force No simple solutions

Trouble-shooting for a remote sales work. team is far from easy, reports Tom Foremski to use a groupware package rupporting a remote such as Lotus Developsales force with adement's Notes software. This U quate computing serhelps distribute marketing vices is not an easy task. information, collect sales orders and access data about There are significant issues customer purchasing. Notes can be used to prepare preof how to support staff who may be rarely in the office - with software sentations, with several npgrades, training, and users participating in the creating the right computprocess through modem coning infrastructure. nections. Notes also pro-There are also issues of vides security to prevent security, since providing outsiders from tapping into ontside links into the centhe network. tral office brings the poten-Other solutions providing remote access to the central office local area network tial for unanthorised users finding their way to sensi-(Lan) include Novell's Nettive company data. And while there are many soluware Connect and Microsoft tions available for remote Windows NT Server Remote access, the number of Access Service. options, configurations and parameters can he overbese two applications wbelming to an organisaallow a sales staff member in a remote tion's already overworked location to dial-in to the IT staff. Supporting a remote sales main office and make it seem as if they are just force means more than just allowing staff to run spreadanother local node on the network. Data transmission sbeets or word processors on portable computers, with is slower because of modem occasional links into the connections, but there is a office. A mobile sales force lot of value in having fall needs access to the latest cess to all files and appliinventory data, delivery schedules and prices; it also cations. Simllar remote access needs to be able to file sales applications include Simware's A2B, Attachmate's Remote LAN Node, and orders and track their status. This means access to the company's database and, Funk Software's Wandertraditionally. this has always been a difficult task. link. In addition, there are remote control programs When prohlems arise, such as Symantec's pcAnytronhlesbooting is difficult where and Traveling Soft-ware's LapLink which allow because the salesperson and their computer may be huna remote user to take condreds of miles away. A gentrol of a PC from a remote eral rule of thumb is that location The future for connecting supporting a remote worker is abont a third more expena remote sales force, bowever, lies with Internet techsive than supporting a local nologies and Internet worker. Apart from solving the enabled database systems technical problems, the other half of the coin is that can generate web pages on-the-fly. Using a web deciding how to manage a browser as a universal user remote sales force. Experts interface, companies can set say that guidelines must be up special web sites to supestablished that place an port their sales force.

FINANCIAL TIMES WEDNESDAY NOVEMBER 6 1996

US companies are generally more advanced than those in Europe in applying sales and marketing systems. Above: the service centre of US West, the telecommun company, in Phoenix, Arizona. US West has partnerships in the Europe, including Telewest, the cable company, and One 2 One, the tions network nersonal commu

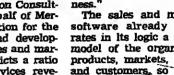
ter, cheaper and more effective." Tha increasing use of

implementation assistance is supported by research car-ried out by Hewson Consulting Group on bebalf of Mercatus, an association for the profitable use and development of IT in sales and marketing. This predicts a ratio of licence to services revenue of 40:60 in 1998 and 30:70 by 1999, Strategic marketing, plan-

ning and campaign manage-ment are vital areas which are not yet fully supported by available systems. Existing software is largely aingle user, aimed at helping teams

of cross functional managers to draw up plans. "It acts as a facilitator, recorda the views and assumptions they make and plays hack the results of their assumptions," says Mrs Hewson. "It is only ade-

quately supported by 10 per cent of systems. "It is exceptionally difficult to do as you can't unhundle the software from the marketing techniques



Meanwhile, Ovum is enthusiastic about the bene-fits offered by an integrated sales and marketing system. "Can a business afford to wait?" asks Burrows. "In this competitive age, it's a question of grow or die."

Membership of Mercotus is open to vendors and end-us-ers interested in the profitable use and development of IT in sales and marketing for an annual subscription of £295. Contact tel: 44 (0)1908 677840, involved. Planning requires fax 01908 677850.



implementation. However, tbey are winning tha hig orders to the extent that their main competitor is in-house development." Mrs Hewson is forecasting substantial growth in 1998. She reports that there has

base, mobile computing, computer telephony integration and networking, very few in-house IT organisations have the range of skills. If you need a new sys-



80. 100

software and using only the software programs that they need to carry ont their

Connecting with the main office is achieved in several ways. Some companies opt integrating hard data from marketing systems with 'softer' data, such as customer needs, competitive positioning and attractive-

Software

Nen mil

The sales and marketing software already incorporates in Its logic a complete model of the organisation's products, markets, channels and customers, so it would be natural to incorporate a planning and modelling facility which could accept

and record the soft data, while providing manageds with the hard data they neeð

む

ki.

÷.,

37

5

 $i\in \mathcal{I}$

.

 $\leq n'$

22

7

11

really costs to buy a printer?

Do you know how much it



Apple insoft he cale?

Well, yes he to just he's also going to be very in persive. From 0: 21 he could able his proud parents. 19-10 2295 8119

Summing, or what

And while the obvious similarities between childhen ind posters are lew, unexpectedly high running cests

and a bell blah tinas.

water and the water Ball with on well, at least you have a choice. the fact is not only do our. prating match others on perchase price and quality they'll also gave.

you accurd a penny a page. Wath means that over 3 years

pro-average life of a nervoil-

panters, a kyol eta protei coald cost \$3,300" less to run

than one of its ricals

Compared with how long it takes to earn £3,800, it's the work of a moment to apply that potential saving to

every ponter on your network.

(Neecless to say, kyocera has a complete range of puniers, fully compatible with all major environments and operating systems (This lower cost of ownership can largely be attributed to knocera's unique ECOSYS cartindgetree concept Put camply instead of regularly having to raid your INVESTIGATE THE ONLY REAL ALTERNATIVE. oudget for the whole cartridge -

drum, developer, loner, gears, the TATAL PRINTING COST COM Year 1 Year 2 Year 3 tot - you only pay for the toner. ara EGOSYS E1,972 C2,645 E3,319 Put even more simply, your Havelett Packand 23, 187 25, 154 27, 120 business can be more prolitable Total Cost Seving E1,219 E2,509 E3,801 with Avocera crinters.

Call us now on 0345 103 104 for your free an-dark during in the uS complimentary copy of the

2 cost of ownership Fyccera demonstration disk

And talk to your Network Manager about cost of comership in general, and hypotera printers in particular.

new lat

Then, perhaps another, time you won't get left holding the baby.



na ang Kantonan ala (si na ang kang kang di sing kang Asters ASS 185 An niza singon fundi fundus de unerreginity, exercitoren e

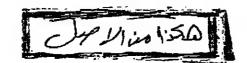
The weh site can include emphasis on training staff to enable them solve some electronic forms to accept basic computing problems sales orders and handle data themselves. queries, cutting down on It also means setting up a paperwork. A company's schedule to undate the appliweb site connected to its cations on portable computdatabase, can provida realers when the salesperson time data on inventories. visits the bome office - and billing and delivery schedmaking sure that staff are

using the right versions of Continued on facing page

. <u>. . 1</u>

13 & 14 November 1996 Wembley Exhibition Centre





Software

TORY,

T. J. Friday

tor business

S Sterney

A Seco

¥ ·····

services and date

1106

. . . - -

CI-III

.

E san division and as a reason of the second s

Relationship management systems . By Rod Newing

New ways to plan a global business

Managing complex relationships between global organisations presents a substantial challenge to sales and marketing systems

L isations having to repond to increasing globalisation. Their customers need the banks to have a good understanding of their overall needs and investment strategies, banks must offer consistent advice across a range of markets, products and regions and design solutions . which will edd value to their customers' businesses.

"We have a huge global customer base, so we are constantly trying to improve and stay ahead of the competition," says John Weguelin, senior vice president of Global Capital Market Sys-tem at Bank of America, the US bank with offices in 38 countries around the world.

"Ws need systems to belp us to identify and leverage global investment opportunities, integrate and distribute economic research and market data and share comprebensive customer information."

traditionel However, organisational structures, based on product groups and geographical locations, are

nvestment banks are one uniform product range and of a wide range of organ- services in each market in each financial centre. Groupware products, such as Lotus Notes and Microsoft including forecasts. Exchange, are ideal for building relationship management systems.

A

A relationship management system allows geographically separated execu-tives with different market skills to share information about each main client and so work together to develop joint client marketing strategies and pitches. As well as providing complete details of all enterprise-wide relation-ships, contacts and meetings, a relationship management system can provide

prospect status, potential investment needs, responsibility and date and nature of next action, including delegated actions. "We service our customers in 10 different countries and

they expect us to be ons organisation," says John Odmann, project manager at ing plans Svenska Handelsbanken, the leading Nordic bank with 500 branches.

"Lotus Notes is an excelpoorly equipped to provide a lent tool which will allow

build up a more complete tion, external news, internal picture of the client's news, to do lists and credit requirements and needs." processing. It also gives Such a system enables the access to a management preparation and manageinformation system through ment of individual global cliwhich account managers can ent marketing strategies and track exposures, revenues, allows monitoring and mainand product profitability. "It tenance of the deal pipeline, acts as a single window

well-designed system will also provide manage-ment information, covering Groupware areas such as growth in mulproducts are ti-product clients, monitoroften ideal for ing success of cross divisional account teams or reviewing consolidated cli-ent profitability. building relationship Anybody in any office can find information on current management and potential clients, covering all parts of both organisystems sations throngbout the

world and in all markets. The systems also allow manager receives all the information he or she needs access to internal electronic to manage the relationship professional information libraries, covering arsas effectively and out through such as products and serwhich be can send any com-munication," says Robert Frazer, head of marketing. vices, financial instruments and market research. Perhaps most importantly, they Like all groupware appliallow dispersed staff to concations, relationship marketduct group discussions and ing systems are closely tied draw up joint client marketwith changes in corporats culture. "It has been trans-

Standard Chartered Bank, forming the way people which has a network of 600 approach the business, and offices in 40 countries, bas the way in which they are used Lotus Notes to develop communicating so much an integrated system which more effectively now, has

kind of result IT suppliers

have promised for the last

two decades, but rarely, if ever, delivered.

serving two million custom-

ers, plans to offer time and

Sunderland, hundreds of kil-

ometres north of its London

London Electricity has

Application

staff regardless of location to supports customer informa- really been a revelation," says Mr Frazer. "We are instilling a culture of rigorous account planning and, by using the call reports and deals-inpipeline, making sure that people work as a much more effective team, wherever they are in our worldwide though which an account network of offices."

would be relevant to any global business-to-business relationship management." With Rapport, (info@men-Bank of America has also hir.com) any document creachieved cultural changes: ated in Microsoft Office is

"We have empowerment in terms of the increased knowledge we have placed in peotions in their respective ple's hands," says Mr Wegueorganisational hierarchies. lin. "Not just about our Importantly, it has the abilbusiness and our customers, but more importantly about Ity to administer the secu-rity required by "Chinese our customers husinesses walls". CMG does not recomand their needs from the mend implementing a relabank. "The introduction of Lotus tionship management system nsing intranet technology because it does Notes has been an enormous

motivator in getting people not yet offer security. to share information which they would otherwise have As business becomes increasingly global, the demand for relationship retained for themselves. We have seen greater co-operation, teamwork and sharing of information which has certainly resulted in increased cross selling and an ability to close transactions."

Although Lotus Notes has identify key trading patterns established a strong position which can provide new opportunities for their cliin relationship marketing systems, Microsoft Access ents. has entered the arena. "We It also increases their per-

implement Menhir's Rapport ceived professionalism when (http: //www.menhir.com), seeking new business and

range machines.

Keith Bear, an IBM busi-

ness manager in the UK, is

traders to apply data visual-

isation to financial statistics.

Developed with US software

house, Infinity Systems, Dia-

mond is aimed specifically at

"Based on our models, it

Investment bank JP Mor-

which is based on Microsoft's Exchange and Office products," says Paul Foll, director of CMG the European systems integrator. "It was devsloped for wholesale banking, but

tagged both to the origina-tor's and recipient's posi-

the Internet. the Internet are predicted to grow from 2-3 per cent

helps to keep existing clisnts. A client-focused relatlonship management system provides a very strong means of building long-term market sbare and consistently growing profits.

The company had identi-

fied people over 55 as a key

purchasing community, Dae-

woo wanted to locate its 30

spot. It turned to Mapinfo, a

£1.100 desktop mapping

ised mspping system. It

allows us to plan outlets,

any recalls of models and

customer distribution. We

use it to plan local market-

ing campaigns and media

spending." says Weston.

We run this as a central-

active promoting Diamond, a main sales offices, plus sup-

£400 package that allows port facilities, in the right

package.

Forecast of big rise in sales via the Internet

and the second second

FT - I T

A new survey reveals that today to about 17 per cent the UK's top companies over the next five years. expect almost one-in-five of Electronic Commerce Research Report: KPMG their sales to come directly via the Internet in five Management Consulting, London; telephone 44 (0) 171 years' time, representing a total of about £170bn, writes 311 8786 Michael Wiltshire.

This estimate - by Harris Research for KPMG Magazine: Doing Management Consulting* -**Business** Online The first of e new series of glossy magazine guides entitled 'Doing Business Online', will appear with the next issue of the FT-IT Review on Wednesday.

December 4. Features in the new guide, produced in co-operation with '.net' magazine, will look at security issues on the commerce, including intranets, smartcards and Direct sales sttributed to

Internet and ways to create corporate web sites. For details relating to this and other regular FT-IT features, please see the information panel on Page Two of this review.

bank, is very aggressive about using its relationship management system According to Otto Benz. IT project leader: "We will extend Notes to more clients, improve the quality of our presentations. increase our marketing options and stay ahead of the competition."

marketing systems is going to grow. Cross-selling opportunities are increased by allowing staff to understand and sbare client requirements across product groups. This enables them to

SBC Warburg, a division of Swiss Banking Corpora-

tion, the global investment E Data visualisation in marketing . By Michael Dempsey

Telephones and marketing . By Michael Dempsey Machines are the answer Pinpointing the best sites

Companies have begun to exploit the integration of computers and telephones

o matter wbst the time of year, the IT sector always has a flavour of the month. And, judging by the flurry of marketing activity, extolling the virtues of call centres and the allied technology of computer telephony integration (CTI), it appears that linking processing power to the bumble telephone is the next . great bope for an industry. that never misses an opportunity to market a concept.

to bear out the marketing turning to computerised call fewer salaried employees? telecoms consultancy, has year. conducted interviews with that the market for these systems will grow from less. than \$100m (£64.1m) in 1995 to more than \$1bn by 2000.



centre contracts would seem. Above: rapid call-handling with Nortel Meridian equipment

push. But are companies just place, so a traditional struc- computer using IVR, a proture based on five areas has cess which does not require centres to shed staff by been replaced by a central a member of staff. giant Rockwell, IVR from mass of data acquired by steering telephone inquiries help desk with one call cen. This attribute of CTI, another US supplier Syntel- computer-literate large husi-

explains

a caller."

Business planners to a small number of topinvolves phone contact only. "Milk Marqns has devolved are able to make the tedious side of its work, shrewd campaign beld on the large Sequent computer, to IVR. Machines decisions with the talk to machines and people use of data talk to people." This is the

mapping software For a very obvious con-cept, data visualisation has taken a very data

has taken a long time risk management. to arrive. Expressed in its most simple form, it entails allows you to take historical The commercial possibiliexpressing a mass of data and project that forties of this have begun to impress users. London Elec-tricity, the £1.3bn ntility numeric information in a colourful format. ward. It gives you a way to test assumptions and corre-This allows salient points lation," says Bear. to be grasped quickly, which gan provided the risk factor in turn means pulling out capacity through its new facts that make a difference data that underlies Diamond purpose-huilt call centre in

- and JP Morgan's contribu-"in the commercial markettion to this product high-Data visualisation owes its lights the importance of havcurrent status to a number ing the right parameters fed of factors: the entire field of into a data visualisation welded together an ACD sys- data-mining, the search for project. tem from US electronics valid information in the

Getting the rules right before you begin to interpret data in a graphic form is

code their own data, or data they bave purchased. This entails attaching some form of critical tag, typically a postcode, that allows Map-info to display data.

The resulting map can feature simple colours, or symbols the user requires. Daewoo used Mapinfo as a software engine. But it also paid for population census and mapping information.

Further software, Mosaic a collection of lifestyle data that goes down to every 15th

MapInfo users must Geo- Continued on next page



XVII 17

is made despite very low levels of investment in the technology and the fact that more than 80 per cent of the companies ovestioned cannot currently attribute any sales to the Internet. The survey reflects the views of marketing directors of 100 UK companies - each with an annual turnover of more than £200m - concerning their use of electronic

When it last carried out this survey, in 1992, only 4 per viewed hed, or planned to, install CTI. Now that figure

stands at 13 per cent. Off-the-sbelf packages which can exploit CTI hardware or add value to other applications are also begin-ning to arrive in significant numbe

This is opening up CTI to businesses which might not seem obvious targets for You're talking about a techleading-edge technology. The key lies in the way the technology extends the scope for contact with customers for

retail outlets. Milk Marque emerged in 1994 when the UK's statutory monopoly in milk sale and distribution, represented Siemens product, an inte-by the Milk Marketing grated voice response (IVR) Board, was deregulated. Deiry farmers could now choose where to take their results of milk quality tests. A farmer rings in, presses the hash key on his phone. produce. Milk Marque collects, tests and sells milk for some 20,000 farmer members. The company realised that gives his membership and costs would become critical personal identity numbers,

costs would become critical in a competitive market- and then interrogates the

an a star a s



into a remote system with tre. This employs 12 staff working on rotas seven days Schema, a London-based a week, every day of the

autickly."

To make such a lean oper-500 businesses across Europe ation work, Milk Marque tbat use CTT. It concludes divided calls between complex queries needing expert intervention and routine calls, in an operation dealing with 2,000 calls a week. It turned to Germany's Sismens to implement a call cent of companiss inter- centre that would meet this specification.

Jack Griffin, manager for voice applications et Sie-

puter system containing ths

_...

mens in the UK, says that his company makes money system and distribute this out of CTI by focusing on integration. "Siemens might charge around £20,000 for a by following its own script. This process is known by the unlovely but memorable term "screen-scraping". system, but that would buy a very basic box. It all needs tinues alongside IVR. Sieto be set up very precisely.

mens has configured Milk Marque's call centre to flag calls from Wales and divert nology that's very hard to understand, the issue is how to get it serving the business Milk Marque bought an automated call distribution

them to a Welsb-speaking phone agent. Many call centres boast about the information made system which takes calls and available to staff via comqueues them into another puter screens. Griffin notes that Milk Marqus no longer has computer terminals on system. The IVR is linked to Milk Marque's Sequent comits agents' desks - the buman side of the equation

tomers.

cations.

personnel, is not as ruthless and retrieves call data from as it might sound. "Many UK CTi specialist inference. jobs in call centres are seri-ously boring," Griffin Gordon Critchlow, customer communications manager at London Electricity. "People burn out, they just says his company handles two million calls a year. A

removing the need for some

don't last long dealing with these queries. We remove London Electricity employee since 1968, Critchlow is the boring bits of the agent's job so the customer only disabout to relocate to Sundercusses real live matters with land. Faced with an open market in UK electricity sup-IVR exploits the milk test ply from 1998, London Elec-

tricity wants to be a national database by pretending to be a number of computer termiutility. And the potential of nals. It can pick up the latest its CTi operation should add to its turnover. With ACD able to identify information typed into the

which supplier a caller is searching for, there is no reason why it shouldn't supply call centre facilities -Human intervention conand experience - to other ntilities.

CTI growth is not another IT marketing illusion. Lon-don Electricity is one of 220 companies that have joined the Call Centre Manag Association within 12 months of its founding. The reason behind this explosion in sales may well be the fact that smart users can sell on

call centre investment.

lec and software that stores nesses, has focused attention on what can be gained by a sbrewd evaluation of existing material. Another reason for the rise

of data visualisation is that when material is represented graphically, it is a lot easier to understand – and IT analysis has spread into all levels of management.

Businesses that need to react to market trends cannot wait for lengthy techni-cal examination of their sales data by distant specialists. They want to put the power to reach practical consultants et the fingerups of . managers.

Finally, there is the cost factor. Cheaper processing power is continually cited as the reason for trends such as client-server computers displacing the large, expensive mainframe of yesteryear. But the proliferation of powerful computers that do not soak up half a company's IT budget also allows the user to experiment with new 'fla-

vours' of software. IT suppliers who offer data analysis services using vistheir own expertise with no ualisation techniques can cost-out their time at a real. extra outlay on the original istic rate if they are not tied

known in this field as establishing a "gravity model". The gravity model is essentially the weighting given to comparative types of information; while the actual deta visualisation product may appear quite cheap, the kind of information it demands can be expensive to acquire.

Network

Nigel Weston, business strategy manager for Daewoo Cars, relied on data visualisation techniques to devise a dealer network that spans the UK.

Daewoo, a Korean conglomerate ranking as the 33rd largest company in the world, formed a UK vehicle subsidiary in 1994. Starting with a clean sheet gave the company a chance to place dealerships and support outlets where they could best serve the target customerbase.

"Daewoo's gravity model was clear before the com-pany paid for any software. You have to write the rules," says Weston, "and for Daewoo, people of e certain age and income are critical."

Support for the mobile cases (pane) Web sites will make work easier

Continued from download small, specialised programs when required, facing page: rather than have to carry

ules plus historical informathem around constantly. Database companies such tion on each customer; taken a step further, it could as Sybase, Oracle and Informix are rapidly adding feaalso help to produce personalised presentations for custures to their databases that help support a remote sales An Internet-based solution force by using internet con-

also brings several impornections. "We allow you to take advantage of distributed tant support benefits. Since the only thing the sales person needs is a portable comcomputing by giving a por-table laptop to a sales perputer with an installed web son. We've introduced browser, support costs are things like message replicalower. The web site can be set up to provids all the tion so that whenever you information and control the get the chance to get condisplay of that information nected to the home system, without requiring the user yon can replicate changes from your database to the to run their own spreadcorporate database," SEYS David Hseth, vice president sheets or presentation appli-

Java or ActiveX-based of enterprise product mar-applications can be devel- kating at Sybase. "The centralists of the oped to add further func-

tions by allowing the user to world would say 'take away

the PC from the salesman and let them call into the home office and talk to someone about wbether we've got that product in inventory" or how quickly we can get 'a thousand widgets in red' out to the customer. We don't think that's the way to do it," he adds.

cales force.

Opportunities

Oracle also sees big oppor-While giving a sales force tunities in enabling its dataccess to a web site brings bases to create web pages the same concerns over 'on the fly' for applications security, firewalls can be such as supporting a remote constructed and security procedures established thet "If you look at the content makes it very difficult for on intranets and the Interoutsiders to gain access to net, most of it is static sensitive information. And pages. Whereas most of the interesting data that people ultimately, the same system could be used by customers and enterprises use within to make place their orders the enterprise, as well as themselves and conduct the their suppliers and custom- entire sales process in one ers, is stored in a relational place.

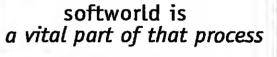
database for security pur-poses, reliability, availability - all those things. So what we see is that the web is going to evolve from static documents to dynamic documents where the contents will be constructed when the user makes the request for what they want," says Sohaib Abbasi, senior vice president of Oracle's tool product division.

telephone or fax fax back 0181 546 8882 or visit our Web site http://www.softinfo.com or email softworld@softinfo.com source questions softworld answers FT - 31 - 35 - 5

& Finance

19 & 20 February 1997 Earls Court 2, London





Softworld in Accounting & Finance provides a unique opportunity to see the latest accounting & finance software in action - in one place, at one time.

FREE exhibition

FREE product demonstrations FREE Report &

Product Directory **NEW format Masterclass**

0181 541 4865 0181 974 5188

TEASD /

XVIII

18 FT - I T

FINANCIAL TIMES WEDNESDAY NOVEMBER 6 1996

View from the top

Interview with Peter Schnell, co-founder of Software AG . By Geoffrey Nam

Passing the baton to a new generation

Marketing is of paramount importance to IT companies, says Peter Schnell and he cites Software AG and SAP as examples of European companies successfully competing with bigger US suppliers. Today, Schnell's company has customers in more than 80 nations

n 1969, Peter Schnell, cofounder of Software AG, Darmstadt, is Germany's set out to crack IBM's dominance of mainframe software by building a better the latter, it has stubbornly database.

The technology be developed, Adabas, still wins by Mr Schnell until 1993, orders today, and the company, one of Europe's leading software houses, is poised for a new phase of foundations, to ensure the growth as a supplier of data warebousing software and other products that turn data into valusble information.

Mr Schnell, however, will not be taking Software AG AG will soon have to seek into this new era aa he announced his retirement as chairman at the beginning of this month. At the age of 58 a frieodly bidder. and after 30 years in the computer industry, he has decided it is time to pass the batoo to a younger generatioo better prepared to cope with the dramatic changes sweeping through the oncesleepy world of database software

Software AG, based in The list of potential partners is long. One obvious second largest software candidate is SAP, which has bouse behind SAP and, like a similar culture, and activities that dovetail well with those of Software AG. Another possible suitor is remained a private company. All the shares were owned Microsoft. Software AG is converting Microsoft's object when he placed the entire bolding, reportedly worth technology, called Distributed Gomponent Object around \$500m, in two private Model, to run on mainframes company's independence and the fruits of this collaboafter his retirement. ration, predicted for nsxt Three of SAP's founders recently did the same thing. year, will take Microsoft into new territory. "Microsoft knows the con-

Times change, bowever, and Mr Schnell believes Software sumer market is not 'everything' and they obviously external funding, either want to get ioto the very Incrative market for enter-prise computing," says MrSchnell. The prospect of the company be started 27 through a flotation or by offering a minority stake to "It'a no longer true that

the company can grow simyears ago having to accept ply by investing its profits in external shareboldars does innovation. The innovation not disturb him. cycles have become too sbort and now we need new capital. I have no doubt that Software AG cannot stay completely private," be says.

reported a net loss of DM50m for 1995. It is in the middle of s restructuring programme which includes abandoning non-strategic activities and refocusing on a smaller number of lines of business. It hopes to be profitable again in 1997, but to achieve this it has to save DM100m in the next two years.

Roughly 350 people will bas long before these other lose their jobs - a bitter companies were founded and blow for Mr Schnell who is increasingly worried about the social consequences of the information revolution. "Using IT to slash costs is

a real time-bomb and we cannot act as if nothing has happened," he says. Last June, the topic was explored in Software AG's annual symposium, which had as lts theme "Information Technol-

ogy with a Human Face". Software AG is best known for its Adabas database and the Natural fourth generation language. These products have kept the company successful and independent in an industry notorious for rapid change and "It is a major change,

given the history of the commergers. Software AG has more pany, but we have to adapt to the needs of the real than 5,000 customers in more world," be says. Software than80 countries. Adabas

AG is currently going was originally developed for Schnell's fortune in the early through a rough patch and mainframes but its latest days, but he says the prodincarnation, Adabas D, works on many types of PC and server platforms. It can be used with standard relational databases from vendors such as Oracle, Sybase and Informix, though Mr Schnell clearly believes Adabas is superior. "The 'relational' approach was a function within Ada-

> Adabas includes other data models that you cannot do with a purely relational database," he says.

The Adabas technology was recently enhanced to manage World Wide Web documents on a web server, and Mr Schnell sees a bright future for Software AG in the Internet age. However, he cantions against companies rushing into building intranets and distributed system

"Nearly all distributed projects fail to meet their price tag because the moment you distribute something, you get problems you never real-ised before. There is an extra

dimension of complexity." he says. Adabas mads Mr

nct represents just a fraction of the company's revenues today. The new focus is on products that sit on top of databases and make data easier to use within organisations. These include products to model data and extract it from existing databases, reporting and query tools to allow non-technical managers to access a database, and data warehousing products.

"Every other year the industry has to invent a new buzz word and data warehousing is the latest. The concept, however, is 100 per cent valid.

"Data warehousing is completely different from the way computers were used in the past. Instead of automating business processes, you take existing data and create something out of it which for you - as a human being, is information. Back in the 1960s, when

Mr Schnell was working as a computer consultant in Darmstadt, his clients were struggling to make sense of the data on their main-frames. "I did projects for large companies and found they were constantly trying



chneil: stepping down after 30 years in the busin

started Software AG.

tured company is more marto re-invent the wheel," he ket-driven than it was in the past. He cites as an example Exploiting his background Dmart, an easy-to-use "data in mathematics research, he mart" product unveiled set out to build a database recently. Data marts are that would answsr these cries for help...and so small data warehouses tailored to a specific group of It has taken 30 years, but Mr Schnell believes the data users or applications, auch as marketing or customercommerzb.ar commerzb.ar profits up 37

مين بوسي المحقا والم

(Called " #3

1.1.1

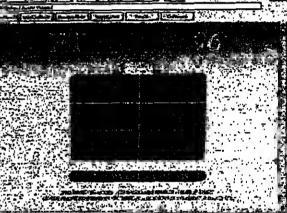
4.20 322

warsbouse could finally information systems. According to Mr Schnell, crack the problem of turning unintelligible data into useful information, thanks to tha recent arrival of relatively inexpensive processing power that makes the data warebousing concept bigger US companies.

affordable for business The data warebousing market is predicted to be worth \$7bn in 1997, but is hotly contested. Software AG has strengthened its marketing muscle by poaching a director to oversee marketing and customer service from the US computing services giant EDS, and Mr Schnell believes the restruc-

marketing is of paramount importance to IT companies and he cites Software AG and SAP as examples of European companies successfally competing with He wishes there were more

examples to cite, however. "European firms have s tendency to invent things and not understand how to make a product out of it. But in the US, there is more emphasis on marketing, which speeds up the testing of new ideas. In Europe, we more or less want a 'guarantee' lt will work," he says.



leveral sites on the internet will be offering coverage of the 'set piece' of Britain's economic calendar on Tuesday, November 26, Accountancy firms and economic think tanks will be gearing up to predict the contents of Chancellor Kenneth Clarke's dispatch box. in the run up to the big day. The FT web site will be offering full coverage of the Budget, with reaction and analysis of what the Chancellor's decisions will mean for a range of individual taxpayers. The FT web site (http://www.FT.com) will carry full details and the test of the



The NCR Scalable Data Warehouse.



Looking to use data warehousing to gain a competitive edge? Choose NCR, the company that services and supports more financial and retail transaction-based systems than any other company in the world. We can make your investment pay off right away with a data warehouse solution from NCR that is just right for your needs.



Running industry-leading databases like NCR's Teradata," Oracle," Informix^a and Sybase[®].

For more information about NCR's scalable data warehouse solutions and NCR WorldMark" servers, call 0171 725 8989

or experience our data warehousing capabilities first-hand at: http://www.ncr.com





All WorldMark servers shown feature Intel Pentium Processors. The Intel Inside and Pentium Processor logos are registered trademarks of Intel Corp. © 1996 NCR Corporation. All rights reserved. Teradata is a registered trademark and WorldMark is a trademark of NCR Corporation.

The best Excitement over Java sites Continued from page 17:

Continued from page 1:

vere few Java development tools available, Java develop-

ers had limited experience

with the language and that

development processes were

experimental or undefined.

Sun's Lambert argues that

housebold - gave MapInfo more critical information to analyse. Mapinfo threw this data up in terms of a thematic map. showing hot and cold areas, depicted as red and blue.

"We used our gravity most of these issues have model to consolidate on the since been resolved. He central areas of chosen popupoints out that there is now lations within a given drive a wide range of development time," adds Weston adds tools for Java and an esti-None of this effort came mated 200,000 Java developfor usual PC software prices. ers. - a number which is fast According to Weston, Daecatching up with the 400,000 woo's annual budget for planning using data visualis-Windows developers. ation, in conjunction with

geographic information systems, amounts to £60,000. He aays, however: "It's money well spent - you have to rationalise that axpense against the £60m we've spent on sites and also consider the financial consequences if we put one site in the wrong place. "It's a minimal cost in

terms of what's at stake." Weston notes that "specialist consultancies in the field can charge £30,000 per town to carry out this kind of analysis and we needed 40 or 50 towns studied". Including after-sales sup-

port operations, Daewoo has 176 premises that owe their address to data visualisation projects. From a standing start, it has cornered 1.8 per cent of the British car market. selling over 17,000 vehicles between January and September 1996, with a brand that no UK driver would have recognised two years ago. A 'datamap' button on

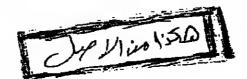
Microsoft's Excel spreadspeet designed to work with the Windows 95 operating aystem, now introduces users to a cutdown version of Mapinfo. Thus, data vis-ualisation is selling cars and

An earthquake' Indeed, some analysts, including Robin Bloor of the Bloor Research group, predict that Java is at the epicentre of a seismic shift in the global \$650bn computer industry which could pose a serious threat to Microsoft and Intel, the two industry powerhouses created by the explosion of the personal computer - "this earthquake will totally re-arrange the IT landscape, affecting all vendors of IT products and services as well as their cus-

omers," he says. "Jsva will turn the World Wide Web into a vast network for client/server operation ... because Java exacutes anywhere: for the first time, software application development can take place separate from an operating system. This ensbles the Internet, changes the client/ server paradigm and smashes the door open for the 'thin client' [i.e. s stripped-down PC - or an 'NC' - designed to work across a network)."

C Office software market: Microsoft gains ground in the intranet arena, page 9.

seeping through onto the | Business applications for intranets: see pages 11-13.



"Conceive optimistically, plan pessimistically, and execute optimistically." KAZUO INAMORI, founder of Kyocera

SKYDCERE _

FINANCIAL TIMES COMPANIES & MARKETS

Wednesday November 6 1996

OTHE FINANCIAL TIMES LIMITED 1996

IN BRIEF

Commerzbank profits up 37%

Commerzbank, Germany's third biggest commercial bank, announced a rise of 37 per cent in operating profits for the first nine months to DM1.67bn (\$1.1bn). However, the result was below some analysts' expectations and represented a slowdown from the 48 per cent advance of the first half. Page 16

HK Telecom advances 12% at mid-term

Hongkong Telecom announced a 12 per cent rise in net profits to HK\$5.39ho (\$697m) for the six months to the end of September. However, the company, a subsidiary of Cable and Wireless of the UK, lost 15 per cent of its international market share in the first half of the year, compared with the same period in 1995. Page 20

BP third-quarter profits up 9% British Petroleum reported third-quarter earnings in line with market expectations. Net prof-its for the quarter were up 9 per cent to £650m (\$1.05bn) on a replacement cost basis and before exceptional items. Net earnings for the first nine months of the year were a record £1.93bn. representing an 18 per cent rise from last year. Page 22

Gebe in Lloyds Chemists bid

•

*

The battle for Lloyds Chemists intensified as Gene of Germany returned to the fray, bidding \$650.6m in cash for the high street pharmaceuti cals chain. Page 22

Whitbread pre-tax profits up to £177m Whitbread resped the rewards of heavy investment in pubs, restaurants and hotels and an upswing in brewing profits, reporting a 14 per cent rise in interim pre-tax profits to £177.5m. Page 23

US demand surge buoys market for LPG The booming market in liquefied petroleum gas has hit US petrochemicals producers hard. LPG contract prices from Saudi Arabia – the main supplier - were recently fixed at \$250 a tonne for both propane and butane, an increase of almost \$50 a tonne from the October price. Page 26 S. 2. 1. 1.

Companies in 1	this issue
APF	4 Mercedes
Adecco	16 Minas de Almagrera
Aérospatiale	6 Monsento
Air Liberté	15 More
Alpha Airports	28 NatWest
Alusuisse-Lonza	16 Navan Resources
American Alrines	5 Nestlé
Avic	5 Notia South
BAe	6 Newciest
BSkyB .	8 Nintendo
Bayer	1 Normandy
Bortelemann	15 Northern Energy
Billinger and Berger	5 Pacific Century
British Aliverys	5, 15 PepsiCo
British Petroleum	22 Pinault Printemps
CGIP	16 PolyGram

17 RP Telekom

23 Rols-Royce

16.15. Samaund

5 Scania

16 Sol Molia

16 Sony

5 SE-Banken

Shionoal

Cadbury Schweppes

CalEnergy

Ch Karnchang

Commerzbank

Case '

Cerus

Ciba

Cincinnati

Bertelsmann group may be reorganised

Move would allow more outside investment

By Frederick Studemann in Bonn

Bertelsmann, the German media group, is considering a corporate restructuring which would allow some of its units to be offered. Mr Mark Wossner, chairman, said the group was thinking about making its four main husiness units book publishing, printing, Gru-ner + Jahr, its magazine and newspaper subsidiary, and the television and entertainment division – into public companies undar a holding company. This would allow outside

investors to take stakes - a marked change for Bertelsmann, which is predominantly owned by a foundation and the family of Mr Reinhard Mohn,

a minority stake. Restructuring Bertelsmann, Surope's largest media group, would enable further largescale expansion, Mr Wössner

By David Owen in Paris

than FFr23hn (\$4.5bn).

ld, the gold n

-15

16

20

19

23

20

17

17

20

16

16

entertainment unit, which would be the first candidate for flotation This could happen within

two or three years, with the other units following considerably later. "I don't see it hap-pening in the book and printing divisions or at Gruner + Jahr for 10 years," he said. Since postponing its plans

for digital pay-TV this year, Bertelsmann had refocused its television activities on free TV, he added. "Free-TV is significantly higger than pay-TV. Free-TV [in Germany] has a total volume in terms of advertising revenue and licence fees of DM15bn (\$9.9hn), pay-TV only DM500m."

Mr Wössner said Bertelsformerly sole proprietor. An exception is Gruner + Jahr where the Jahr family retains channel in which it holds a 37.5 per cent stake. The channel has 1.35m subscribers, and is signing up come 10,000 a Premiers was an ideal basis

said. This was particularly for eventually developing digi-true of the television and tal pay-TV, he said. But this would require the consent of rival Kirch Group, aleo a shareholder in Premiere. Kirch launched DF-1, its own digital

pay-TV service, this year. Deepite ecrimonious exchanges and even courtroom battles, talks between the two continue. Bertelsmann would like to see hoth networks brought closer together. "My wish would be to see Premiere as a stand-alone network with two core areas - films and sport - and the rest of pay-TV covered by DF-1." Mr Wössner said. Premiere vesterday con-

firmed the expansion of its live coverage of soccer matches. The exclusive deal with the German football federation covers both digital and analogue broadcasting. It gives Premiere the right to screen two games a week until mid-1998

Premiere also has first refusal for the following five football seasons.

increase its exclusive live coverage of matches

Top German footballer Jurgen Klinsmann: Premiere will Picture: Allebort



and Robert Graham in Rome

share, or FFr6.33bn. The medium-term future of Valeo, one of the jewels of the, The move is a big retrench-French car industry, was setment in the business activities tled yesterday in a deal valnof Mr De Benedetti. Mr De ing the parts maker at more Benedetti and his family held the Valeo stake via their The controlling 27.4 per cent

stake in the company held by Cerus, the French holding company of the Italian indusholding companies. trialist Mr Carlo De Benedetti, was sold to three separate buyers - an cinally Compagnie

Générale d'Industrie et de Par- L12,500bn to L4,500bn (\$3hn). holding company - for F330 a

French stake in Cerus. This in turn was owned by Cir and Cofide, the family-controlled

consolidated turnover has FFr1.45bn - a figure analysts gan GT Corporation, a subsid-been cut by two-thirds from say is within the bounds of lary of J.P. Morgan, CGIP's

ticipations, a French industrial excluding the family's 14 per holding company - for F330 a cent stake in Olivetti, the troubled computer and information technology group which is not consolidated. An aide of Mr De

Benedetti described the sale as "a big sacrifice". Cerus will also benefit from an extraordinary interim dividend of FFr10 a share, as well as a possible additional FFr10

a share payment if Valeo's At one stroke, Cir-Cofide's 1997 net profits reach at least

possibility. The company said this could take its overall adviser on the deal, will take a 3.6 per cent holding. receipts to FFr6.7bn.

The deal was concluded at 19 The deal keeps Valeo, which times prospective earnings. Mr Seillière said he had "no doubt has been a target of speculation for most of this year, that in three years' time we firmly in French hands. CGIP, will not even remember the chaired by Mr Ernest-Antoine Seillière, will end up with 20.2 price we paid. I would never have undertaken this operaper cent. Caisse de Dépôts et exclusive interest of my share-Consignations, a French statecontrolled financial instituholders". However, he promtion, will raise its 1.9 per cent ised the deal would not be stake to 5.4 per cent. J.P. Mordilutive.

tion if it had not been in the

Lex. Page 14

BA joint bid for French carrier approved

KYOCERA, world leader in high-tech of

renics and metal processing.

world wide.

in the IT and automotive industry, medicine, elec-

KYOCERA also produces high-tech cameras such

as the CONTAX G1, revered by photographer

CE KUDDERG

ally develops new uses for its technology

Fax 0049-2131-129340

15

By Ross Tieman and Michael inker in London and **David Owen in Paris**

British Airways yesterday won its battle to take over Air Liberté, the independent French carrier, with the Rivaud banking group.

The commercial tribunal in Creteil accepted BA's plan to invest FFr440m (\$86m) in the airline for a 67 per cent stake. Rivaud will provide FFr190m. Mr Marc Rochet, chairman of TAT European Airlines, BA's existing French subeidlary, will run Air Liberte. BA. said the two airlines would be kept separate "for the time being". Attention in France will now

switch to AOM, another domestic airline, owned by Crédit Lyonnais, the bank.

The state-owned Consortium de Réalisation, charged with selling Crédit Lyonnais' assets. is expected to sell the airline before further liberalisation of air travel in the spring.

Air France hinted last month it might eventually bid, although European Commission conditions attached to a FFr20bn aid package will probably rule this out until pext

BA yesterday reported its first fall in first-half operating profits since the Gulf War five years ago, blaming higher fuel prices and the impact of a threatened pilots' strike.

Operating profits at the UK's leading airline slipped by 2.1 per cent to £512m. But a £26m contribution from Quantas in Australia and a £17m divideud from USAir helped lift pre-tax profits for the six months to September 30 9.3 per cent to £470m. This was in line with expectations.

However, slower-than-expected passenger growth contributed to analysts paring fullyear forecasts; UBS, house broker, reduced expected pre-tax profits by £80m (\$49m) to

backs down in mine contracts row

By Mark Ashurst In Johanneeburg

group's head office.

cancel management contracts with the deep level mines. Management contracts absorb about to reject the R126.7m charge to cancel £640m.

individual mines R127.6m (\$28m) to mine efforts to contain rising costs at Shareholders in Gengold's Winkelhaak and Leslie mines yesterday voted

Excitent antra

1. I and 2 a set = 18

And the second second

1. 295 16

· · 3

6 Sony Music Desa 8 Star Mining EMI 6 Stet FirstBus a TNT Flextech 22 Tolia Gengold 18. Traub 23, 6 USAir Granada 20 UniChen Hongkong 14 Valeo 20 Virgin JCI 20 Virgin Atlantic Japan Energy 1 Volkswagen KLM 16 Volvo KPN 5 Walt Disney Kumagai Gumi 24 Warner Landesbank Sci 22, 14 Wedel Llovda Chemista 22 Wennergren-W MAM Marks and Spencer 22, 9 Wheelock 17 Whitbread Market Statistics Foreign exchange Annual reports service Inchimark Govt bonds 30.31 Gillas prices London share service Bond futures and options Bond prices and yields ies prices Money markets Dividencis announced. Lik New inti bond leas EMS currency in Eurobond prices Bourses Fixed interest indices FT/S&P-A World Indices Recent laques, DK Short-term int rates FT Gold Mittaes index FT/ISMA inti bond svc US interest rates World Stock Markets Chief price changes yesterday Legris Pernod Picard Renault SGS-Thomson 1275 118,0 165 370 195,5 195,5 Kall & Setz Failte Estania BS CI TORCYO (You) LAR HOR 676 7810 Palle Regard Tsuth No Yolado Marcian Corp Nissho Iwal \$21 1% 4% 1% 5460 982 493 425 Sth Ch Him Pst First Paolo 1152)/ 811/ 1181/2 52% 28% 9% 7% HK Telecom

- 32 - 25 - 17 (CHICA) 7.00 + 0.10 10.40 - 0.15 13.35 - 0.25 Hang Song Bank Henderson Land Wheelick 90.5 - 20 90.50 - 1.25 17.35 - 0.35 2.9 5.8 . . 41.1 64.0 41.50 + 3.73 11.0 -9.05 -19.85 -0.9 Qna Hitig Failte Charan ins 22 0.95 1.65 1.5 - 65 62.0 17.5 -144 - 42.75 -15 4.50 \$3.75 3.7

24 15 Tokyu Construction 5 22 16, 14, 15 19 http://www.FT.com 24 correct their strategies are. Whether their revived spirits 30.31 Managed funds service 27-29 25 will survive the publication of 24 their 1996 performance num-34,35 bers is, alas, another matter. Analyses of long-run UK share price data have recently 24 been produced by Mike Len-33 hoff of the private client man-agers Capel-Cure Myers and also by Paul Walton of Goldman Sachs in London. In the US, James P. O'Shaughnessy's book What Works on Wall Street has been 208 + 9 286.4 + 11.1 117.7 + 4.9 283.6 + 9.6 selling fast. All show that value-based etock selection strategies heavily ontperform growth styles in the long run. Putting

South African mining house Gencor, has howed to pressure from investors for an independent valuation of management contracts between South African mining houses and individual goldmines. The controversial contracts have underpinned the world's largest gold industry since its inception.

London-based Mercury Asset Management led a shareholders' revolt houses is facing mounting criticism against Gengold's proposal to charge from investors, who claim they under-

Troubled value

investors can

always try to

chear them.

eelves up by

reading the lat-

est recearch

studiee telling

them just how

it the other way around, inves-tors have tended to overpay

for glamour to a quite extraor-

dinary degree. They have in the past, anyway. But right now it is the growth managers

These studies vary in their

methodology. O'Shaughnessy

has access to a longer run of

consistent data than the UK

investigators - 44 years against just over 20. The Wal-ton results are affected by sur-

vivorship bias, because the same stocks are followed over

the whole period. The US anal-

ysis may to a slight degree be

distorted by the reverse effect

- "look-ahead" bias - because

uew, successful companies have entered the database.

who are smiling.

financials.

At an extraordinary general meeting of Gencor-controlled mines in Johannesburg, Mr Julian Baring, managing director of MAM, said: "The quicker South Africa comes into line, the quicker South African gold shares will be properly valued."

The system of management con-tracts for technical expertise provided by the country's higgest mining

5 per cent of the total capital spending of most South African gold mines, plus a fraction of a percentage point of annual turnover. Mr Baring has been the chief architect of their abolition.

Mr Tom Dale, Gengold managing director, said the decision to cancel the contracts was "what shareholders are demanding". Gengold did not need shareholders' approval to cancel the contracts but had voluntarily sought their support, he said.

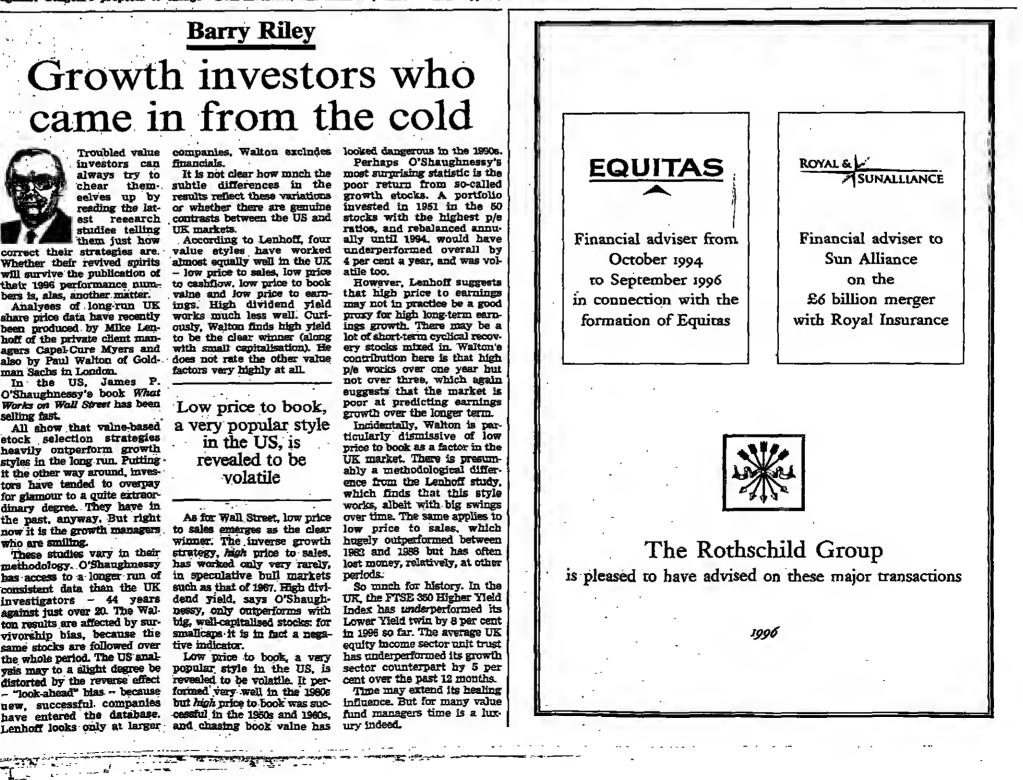
the existing management contracts. Mercury has a 26 per cent stake in them. Gengold, the largest sharebolder, abstained.

Rand Merchant Bank and UAL, the merchant banks which carried out the valuations, defended the charge. They said the contracts were worth R17m a year over ten years, adding that the one-off payout was tax deductible and would cost the mines only R63m after tax

The figures were aided by a £21m reduction in interest charges, as gearing eased to 54.7 per cent

Although further fuel price rises were expected, Sir Colin said, the economic outlook for BA's main countries of operation remained encouraging

He added that the airline planned to cut costs by \$1bn in the months ahead.



COMPANIES AND FINANCE: EUROPE

SE-Banken advances to SKr4.4bn

return to "normal" levels

after the credit loss crisis of

the early 1990s.

By Hugh Carnegy in Stockholm

Skandinaviska Enskilda Banken, one of Sweden's leading banks, more than doubled profits in the nine months to end September as it sharply cut loan losses and underlying operations mostly performed strongly.

Operating profits rose from SKr2bn in the same period last year to SKr4.4bn (\$666m), near the top end of analysts' expectations. Earnings per share jumped from SKr3 16 to SKr6.33.

The result followed solid earnings growth reported losses in the first nine last week hy Svenska Han- months fell to 0.65 per cent

delsbanken, SE-Banken's tra- of its total loan portfolio - a trading and corporate ditional rival, and cbeered investors. SE-Banken shares rose SKr1.50 to close at

Profits before loan losses SKr57 and the banking index on the Stockholm boursa slipped slightly from rose more than 1.25 per cent SKr5.67bn to SKr5.65bn. But on the day. net interest income rose 10 The biggest single factor per cent to SKr5.44bn. In the profits rise was a 66 mainly because falling interper cent fall in loan loss proest rates produced an visions, from SKr3.63bn at the same stage last year to SKr1.23hn. The fall reflected the heavy loan loss suffered

increased yield on the bank's hond portfolio and lower costs of financing problem assets. Mr Björn Svedberg, chief executive, added that last year linked to the failed financial services group. there were indications of a break in a long trend of nar-The hank said lending rowing margins between

on preparations for European monetary union and the 'millennium problem', which threatens the dating ers after the turn of the cenlending and deposit rates.

The bank's balance sheet was significantly affected by finance operations - one of its spin-off in September to SE-Banken's traditional its shareholders of Diligenstrengths - led to an 11 per tia, the company it had set cent rise in net commission up to manage the extensive

income, to SKr8.43bn. property portfolio taken over A less positive developduring the credit loss crisis ment was an 8 per cent rise in costs from SKr6.95bn to as security against had SKr7.47bn, including a 12 per loans. At the end of September. cent rise in staff costs. Mr SE-Banken's capital hase Svedberg said a programme stood st SKr33.8bn, down of technology investment the bank is spending heavily from SKr36.1bn a year previ-

ously. The core capital ratio was reduced from 9.1 per cent to 7.1 per cent. The Diligentia spin-off also reduced systems of business comput- the volume of assets taken over against bad loans from Higher levels of equity tury - was largely to hlame. SKr15.3bn to SKr2bn.

Talks may resolve future of Traub

By Peter Marsh

A deal to create Europe's biggest machine tool company with annual sales of about DM1.3bn (\$859m) could emerge from talks hetween Trauh and Gildemeister, two of Germany's largest machina tool companies.

However, the move could be scappered by separate discussions in which Cincinnati Milacron, the large US industrial equipment maker. has expressed interest in acquiring all or part of Traub.

The talks bave been sparked by severe financial problems at Traub, which has entered into the early stages of administration after running up debts estimatad at more than DM300

Tranb said yesterday it was optimistic. "There will definitely be a solution," it said.

If either of the plans goes ahead, the resulting company could play a pivotal role in the reshaping of the DM12bn-a-year German machine tool industry.

Germany's is the biggest tool sector in Europe, but it has baen financially stretched for the past five yaars as a result of higb labour and plant costs and stiffer international competition.

A deal between Traub and Cincinnati, the US's fourthbiggest machine tool producer, would provide Cincinnati with a long-sought sell-ing and production arm for machine tools in continental Europe. Tha company last year had revenues of \$1.6bn, of which a quarter was from machine tools. Agreements over Traub's

future are tied to discussions over deht repayment hy tha 14 banks, led hy Deutsche Bank, which until last week ware owed DM230m by Traub.

It is thought that for any deal to proceed, the banks will have to write off a substantial part of the money they are owed by Tranb, on. top of the DM100m they have already agreed to waiva in the past week.

As a result of discussions concerning Tranh's status of provisional administration, which it entered into last month, the hanks have agreed in principle to reduce the company's debt liability

to DM130m. Mr Olaf Tolke, an analyst at Merrill Lynch, the US

bank, said be thought tha

EUROPEAN NEWS DIGEST Marchionne chief at Alusuisse-Lonza

Mr Sergio Marchionne, a 44-year-old Canadian, has been named as the next chief executive of Alusuisse-Lonza, the Swiss industrial conglomerate. Mr Marchionne joined Alusuisse in 1994 after its \$555m acquisition of Lawson Mardon, the Toronto-based international packaging group

His rise to the top of the Swiss company, which employs 31,000 people and has an annual turnover of SFr7.5bn (\$5.9bn), has been helped by the departure over the past two years of two potential rivals. Mr Marchionne took over as Alusuisse chief financial officer in January 1995 after Mr Georges Schorderet moved to be Swissair chief financial officer, and in August 1995 Mrs Dominique Damon, Alusuisse deputy chief executive, left the company.

Analysts welcomed Mr Marchionne's appointment. saying it reflected the company's growing international stature. Ha will take over in April 1997 when Mr Tbeodor Tschopp, 59, replaces Mr Hans Jucker, 69, who is retiring as chairman. Mr Marchionne's role as chief financial officer is being taken by Mr Urs Fischer, 42, who joined Alusuisse-Lonza in 1987 as s financial analyst. Mr Peter Kalantzis, 51, head of the group's chemicals husiness, is moving to the newly created post of head of corporate development and will be chairman of Lonza. *William Hall, Zurich.*

Wedel Inc.

salty shire I

future gran

Spain starts sell-off drive

A much-heralded privatisation drive by Spain's contra-right government has got under way with an agreement to sell a loss-making mining company in ths south-western Huelva region to Navan Resources of Ireland. The Irish company said it would psy \$3.43m for Minas de Almagrera, as well as assuming \$5.3m of the company's deht, under an agreement with the Spanish industry ministry's Sepi portfolio unit. Sepl said the sale was the only means of salvation for Almagrera, which mines copper, lead and zinc. The company's modern metallurgical complex would be used to process ore from Navan's own operations at nearby Aguas Tenidas, allowing considerable cost reductions, it said. Almagrera posted a loss of Pta600m (\$4.7m) in 1995 on turnover of Pta4.7bn. It has losses in the past four years of more than David White, Madrid

KPN raises TNT stakes

KPN, the Dutch postal and telecoms group which is mounting a A\$2bn (US\$1.57bn) friendly bid for Australia's TNT, yesterday announced that It had acquired a further 2.3 per cent of its target's ordinary shares, and another 3.7 per cent of the converting preference shares. This takes KPN's stake in the transportation group to 19.6 per cent of both classes of shares. Nikki Toit, Sydney

VW expects strong year

Volkswagen, the German automotive group, said It expected clearly higher earnings in 1996 compared with a net profit of DM336m (\$222m) in 1995. But the company reiterated that it was not satisfied with the current return on sales. The shares closed up DM2.25 at DM615.50, VW posted net profit in the first nine months of DM465m, up from DM185m a year earlier. VW attributed the earnings growth to the success of the parent company, its Audi unit, its Brazilian subsidiaries, success in the Asian-Pacific region and at its financing and financial

services division. Losses at its Seat unit and in North America had declined from year-ago levels.

Cash flow in the nine-month period including leasing activities, rose 8.9 per cent, from DM6.91hn to DM7.52bn. Excluding leasing, it climbed 6.5 per cent to DM4.60hn. Fixed-asset investment in the period stood at DM5bn up 64.7 per cent. AFX News, Wolfsburg

Adecco shrugs off French fall

Adecco, Europe's largest temporary employment concern. suffered a 4 per cent drop in the third-quarter revenues of its French business, which accounts for almost half the group total. However, a strong performance in North America and the Asia-Pacific region offset the downturn

Commerzbank suffers setback in growth rate on the debate over possible per cent higher at DM4.16bn

Luxonen.

DM1bn.

By Andrew Fisher in Frankfurt

Commerzbank, Germany's tbird biggest commercial bank, yesterday announced a rise of 37 per cent in operating profits for the first nine months to DM1.67bn (\$1.1hn) helped by a sharp rise in net interest income and the favourable impact of strong securities markets on commission business.

However, the result was since extraordinary items below some analysts' expectstions and represented a slowdown from the 48 per cent advance of the first

The bank's shares fell 13 pfennigs to close at DM33.97. Mr Martin Kohlhaussen. chairman, said equities business had weakened in the July-September period after developing well earlier in the year. But be expected a more dynamic fourth quarter.

He also repeated the 69 per cent a year ago to 64 bank's determination to stay per cent. "hut we still have independent in a comment further to go". Costs were 7

restructuring In Germany. in the first nine months, a "We are not buying anyone, nor do we see the likelihood slight slowdown from last year. tbat anyone will buy us, Net interest income was 13 he said, noting that the hank's market canitalisation was around DM15bn. But he

per cent higher at DM4.4bn, reflecting a positive trend in treasury business, a rise in total lending and the broader capital hase. The expected a further concentration in public sector bankinterest rate margin was Commerzbank said its predown from 1.47 per cent last year to 1.39 per cent, where it has stabilised in tha sectax profit - virtually the same as the operating result, ond half.

Fee income, helped by were minimal - was 49 per cent higher than in the same increased securities commissions (up nearly 40 per cent period of last year. Assuming a 40 per cent tax rate. to DM685m), was 19 per cent higher at DM1.7bn. net income would be around

Own-account trading activities produced a gain of This would be equivalent to a post-tsx return on 11 per cent to DM402m, of equity of just over 11 per which DM104m came from cent, or nearly 19 per cent foreign exchange dealings, DM232m from interest-based futures and DM66m from before tax. The bank has set itself a target of 15 per cent after tax in 2000. Mr Kohlsecurities trading. Mr Kohlhaussen expected an improved proprietary tradhaussen also said the costincome ratio had fallen from ing result in the fourth quarter as unrealised gains were booked.

cent stake,



Valeo deal hailed as happy coincidence

many outsiders to yester- pling its stake in Valeo to 5.4 day's Valeo deal: one French per cent. industrial holding company will huy the hulk of the sbares held by another in the much admired car parts manufacturer. which will remain firmly in French hands.

This follows concerns valuing the parts maker at volced earlier this year hy more than FFr23bn (\$4.5bn). French car industry leaders and others about a possible purchase of the stake by a US parts company. It will

rench corporatism is also result in the state-conallve and well. That trolled Caisse des Dépôts et will be the reaction of Consignations nearly tri-

Under the terms of the complex transaction, Cerus, Italian industrialist Mr Carlo De Benedetti's French holding company, is selling its controlling 27.4 per cent interest in Valeo in a deal

The majority of these shares - amounting to a 20.3 per cent stake in Valeo - are being bought hy Compagnie

Générale d'Industrie et de to inform Mr Franck Boro-Participations, the industrial tra, industry minister, on holding company chaired by October 14 of the state of the Mr Ernest-Antoine Seillière, national plot, I don't know a Valeo board member. The balance will go to the Caisse about it.

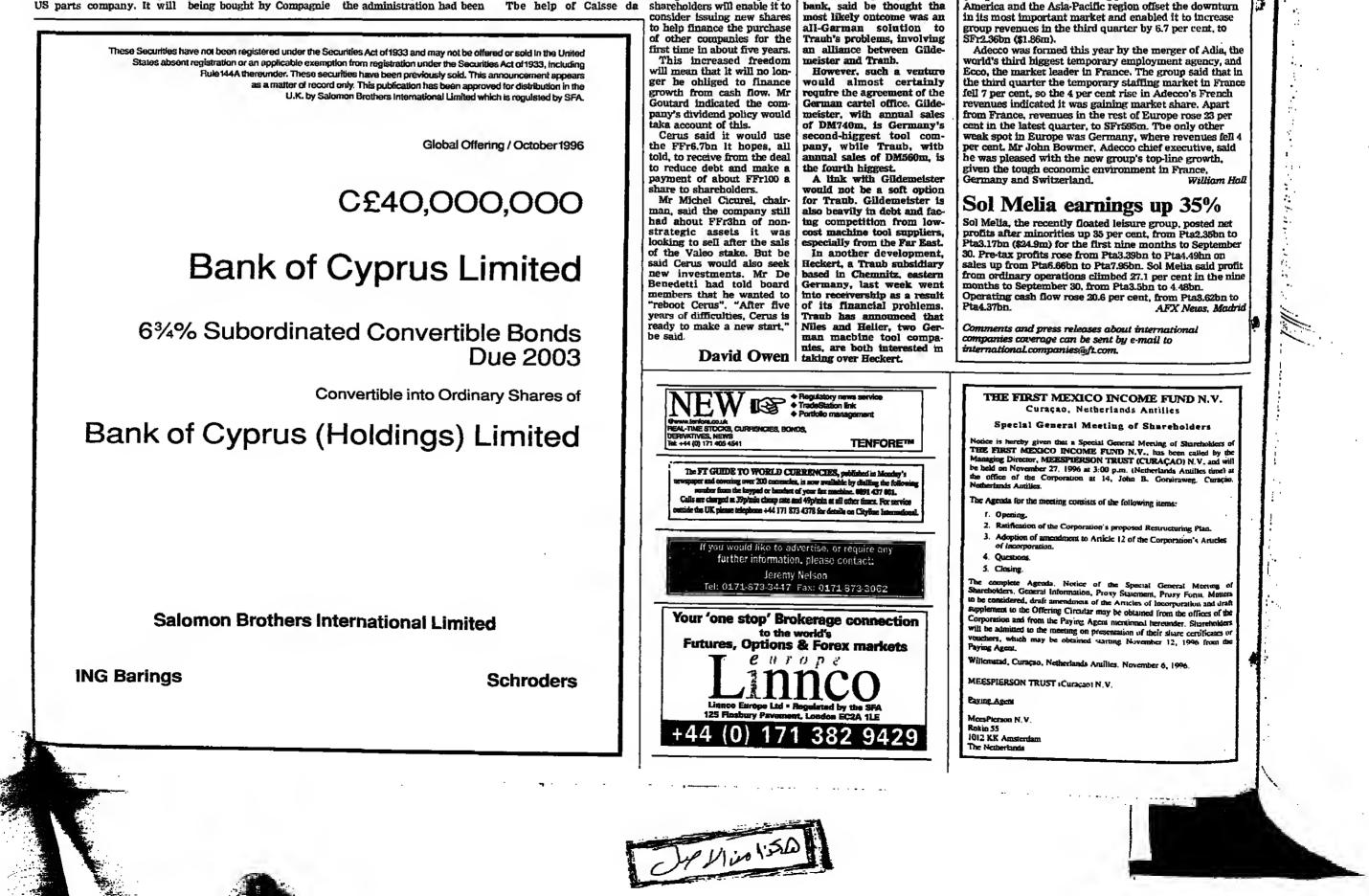
de Dépôts, which is adding But the government, to its existing 1.9 per cent intense fire in recent weeks interest in Valeo, and to a subsidiary of J.P.Morgan, for sanctioning the proposed CGIP's adviser on the deal, sale of part of the statewhich will take a 3.6 per owned Thomson electronics group to Daewoo of South Mr Seillière yesterday Korea, will no doubt be relieved that a solution has insisted he was "absolutely not solicited" by the government. His only contact with

been found that will keep Valeo in French hands. The help of Calsse da

Dépôts and J.P. Morgan turned out to be necessary to square Cerus's desire to sell negotiations. "If there is a all its Valeo shares with CGIP's wish to retain a balanced industrial portfolio. "Wa did not want to be seen which has come under as a car components group,"

Mr Seiflière said. Ona important consaquence of yesterday's deal is likely to be to turn Valeo into a more aggressive pursuer of external growth. As Mr Noèl Goutard, Valeo chairman, explained, the

change in the company's shareholders will enable it to



COMPANIES AND FINANCE: EUROPE

Why Weinberg prefers autonomous energy to ersatz synergy

Pinault Printemps chief aims to overcome flat consumer spending with overseas expansion and bright ideas, writes Andrew Jack

erge Weinberg has an cutting debt and restructur. Pinault Printemps Redoute able view of his role as

head of Pinault Printemps Redoute, the sprawling French retail group. He has little faith in the importance of creating synergies between the companies he controls, preferring to encourage their autonomy. some activities - auch as smell shopkeepere, by purchasing and information technology - may be best conducted centrally, he says that he prefers his different businesses to develop links with each other voluntarily and in response to their needs.

"Synergy is the cherry on the cake," he says. "It is for-midable when it is the result of people working on the ground. It makes no sense if it comes from an artificially created structure. Our quality as a group is to break down hureaucracy, delegate responsibility and encourage

entrepreneurship." It is a message worth hear-ing from someone who, since he took over the group in February 1995, has steadily edged up sales to FFr38bn (\$7.42bn) and substantially increased net profits FFr748m for the first aix months of this year - while

ing his group. All this has been achieved at a time of general gloom in the French retail sector. It has suffered from sluggish consumer spending, the aftermath of the terrorist attacks and strikes that hit the country at the end of last year. Moreover, new mea-Although he concedes that sures designed to protect clamping down on new developments, notably in the suburbs, have been at the

expense of larger rivals. "We operate in an extremely complex mix of different markets," Mr Weinberg says. "Retailing must be close to our customers and very reactive. The paradox is that our role at the group level must be to encourage autonomy in our operating businesses

He has taken a number of initiatives to put his principle into practice. Executives in the different businesses have created informal networks to exchange ideas on computing and marketing One result is the first mail order catalogue by Fnac, the group's books and records chain, inspired by the operations of its Redoute telephone sales company. He has also recently cre-

Share price relative to the SBF 120 160 mates (FFon)

in, Merrit Lynci ated a "development club" in

conjunction with a banking pertner, with initial capital of FFr25m. Funds can be lent to support new ideas,

whether from employees or sale of top-of-the-range lingewhether from employees of the group did not outside the group with a rep-those outside the group. The, the group did not outside the group with a rep-Another example: after attempt to develop it within utation in the industry. The deciding that there was a one of its existing retail group is launching a new miche to be exploited in the chains. Instead, it series of high street outlets approached a businessman

Serge Weinber

in France this month which Finaref, which deals with report directly to the holding credit purchases for customers of Redoute.

المراجع المراجع

Regarding the governwith a fixed cost structure." His attempt to foster creativity is one reaction, given his belief that France will continue experiencing low economic growth.

"l am struck by the number of people who are waiting for economic recovery," he says. "I don't think where, but rather a combina-there will be a strong tion of changes to property upturn." He adds that he law, taxes, housing and planloses nothing by developing his strategy in the absence of any salvetion which would be bought by a surge

in consumer spending. Within France, he is nevertheless placing emphasis on increasing productivity, as well as improving stock anagement. He also highlights the important and fast growing scope for consumer credit cards in PPR stores, which provide a wealth of informetion on customer habits which can be used for marketing.

They are also extremely profitable, eccounting for a substential part of the Germany FFr293m first-half profits from its involvement in non-operating businesses such as

company. The PPR chairman says: "You can't go on making eternal productivity gains

ment's clampdown on new shops, Mr Weinberg says the way the country's suburbs have been defaced by commercial development in the last few years is "disgraceful", but argues the real

17

debate now is how to preserve the ectivity in town centres. That requires, not a ban on new building elsening law designed to make the centres more attractive. Given the difficulties of the domestic market, Mr

Weinberg also stresses the need for further international diversification of the group. He says this has been the focus of all group expansion, including the acquisition of full ownership of the Fnac store in Belgium and new stores in Madrid and Barcelona, as well as Scoa, the pharmaceutical products distributor, in Africa and Rexel, the low voltage electrical equipment retailer, in

By 2000, his objective is to generate 40 per cent of sales outside France, compared with only 28 per cent today.

Wedel looks to salty snacks for future growth

By Christopher Bobinski

PepsiCo of the US, is struggling with international bronght into production rivals to maintain market

The challenge from Nestlé of Switzerland, Mars of the US and Cadbury Schweppes of the UK in one of Europe's most fiercely contested confectionery markets is forcing profits growth.

are set to grow by just 4 per cent to 28m zlotys (\$9.95m) with sales ahead by 43 per

chocolate market and up to a third of the sweet biscuit market. These, together Wedel, the listed Polish with wrapped sweets, chocolate and salty snacks account for 77 per cent of producer controlled by group sales. Salty snacks, which were

after PepsiCo acquired a controlling interest in Wedel five years ago, generated 15 per cent of sales revenue in

1995. Now the company appears determined to boost profits by increasing snack sales the company to look to salty next year and developing its soacks production for future snacks output in the face of Net profits this year unmatched position as Poland's premier chocolate brand.

PepsiCo, which holds e cent on last year to 662.4m 70 per cent share in Wedel - Relationships that ENDURE



You're Interested In LONG-TERM PARTNERSHIP, NOT SHORT-TERM



in a INF stain

CAIN MYORE NO

thionne chip

Asuisve-Lop

damps of the

- / stat and in the

issued this week are in line with the company's year-end predictions which will give Wedel an earnings per share figure of 4.75 zlotys. That would be 17 per cent down on last year's figure.

zlotys

Wedel's net sales rose 45 per cent to 451.8m zlotys by 5 per cent a year, such as net profits increased sales growth will have to 18 per cent to 19.9m zlotys. However, the company predicted a stronger performance next year when net profits were expected to grow by 63 per cent to

45m zlotys. This has helped lift Wedel's stock on the Warsaw Stock Exchange.

Since January this year the share price has risen from e low of 83 zlotys to its current 140 zlotys level, giving Wedel a price:earnings ratio of 28.

growth in Warsew's WIG index over the same period. Currently Wedel holds ebout a fifth of the Polish to-food group.

Soc

whose market value is 813m zlotys - has said it plans to invest \$152m in the com-Third-querter figures pany by 2001. In that year sales are expected to be double the planned 868m zlotys net

sales figure for 1997. With Poland's market for chocolates expected to grow come from a rapid development of snack revenues. It is here that the greatest share of investments in the next four years will go.

PepsiCo has already invested more than \$56m in building a snacks plant and a distribution network at Wedel since 1991.

The US group currently controls about 20 per cent of Poland's salty snacks market where its main competitors are Bahlsen from Germany. Star Foods, a local Greek This 70 per cent rise owned producer, and Chio matches the 74 per cent chips, a joint venture between Convent, another German snack food producer, and ITI, a local media-

BARCLAYS INVESTMENT FUNDS (LUXEMBOURG)

iété d'Investissement à Capital	Variable
("the Company")	
Registered Office:	
Galerie Kons, 4th Floor	
26 place de la Gare	
L-1616 LUXEMBOURG	
RC Luxembourg: B31439	
	-

NOTICE OF ANNUAL GENERAL MEETING

The Annual General Meeting of Shareholders is to be held at the regis of the Company on Priday 15th November 1996 at 11.30am (or as soon th as is may be held) for the following purposes:

- . To receive and adopt the Director's Report and the Report of the Audia the year ended 31st July 1996.
- 2. To receive and adopt the St Operations for the year ended 31st July 1996.
- 3. To grant a discharge ended 31st July 1996.
- To grant a discharge to ended 31st July 1996. . To grant a di
- To re-elect Mesors Fox, Griffit Directors of the Company. To re-appoint Price Waterbourd

Voting

cholders are advised that, in accordance with the Articles of Incorpora the Annual General Meeting of Stareholders will require a quorum of 10% of the bares constanding.

Voting Arrang

In order to vote at the meeting, the holders of Bearer shares must deposit their shares nor later than Wednesday 13th November 1996, either at the registerer office of the Company or with any bank or financial institution acceptable to the Company, and the relative Deposit Receipts (which may be obtained from the registered office of the Company) must be forwarded to the registered office of the Company to arrive not later than Thursday 14th November 1996. The shares ed will remain blocked until the day following the mee

The holders of registered shares need not deposit their ca cet in person or represented by a duly appointed proxy.

cholders who cannot attend the meeting in person are invited to send a duly red office to arrive not later that completed and signed proxy form to the regist Thursday 14th November 1996.

Proxy forms will be sent to registered Sh rs with a copy of this Noti and can be obtained from the registered office of the Company. The Board of Director THINK YOUR BANK SHOULD SPEAK THE LANGUAGE.

WHEN YOU EXPAND

AROUND THE WORLD, YOU

SALESMANSHIP.



CIGNA FOUND A BANK LIKE THAT. 103 YEARS AGO.

In 1893, CIGNA retained Citibank-and never looked back. As CIGNA has expanded around the world, it has relied on Citibank's innovative solutions and unrivaled global expertise. Citibank and CIGNA: a contury of financial partnership.

States and a second s



Bankers Trust International PLC

18

SBC Warburg

ĽORÉAL

The L'OREAL Group's consolidated sales for the first nine months of 1996 rose to FF 44.58 billion. Growth compared with the same period in 1995 was 12.1 % on published figures and 7.8 % on a comparable basis, excluding the impact of movements in group structure and exchange rates.

The Group's interim consolidated sales showed an increase of 11.7 % on published figures and 7.7 % on a comparable basis.

The difference between published figures and the increase on a comparable basis is primarily a result of the consolidation of Maybelline, Jade and Interbeauty (Israel) for the first time in 1996.

Operating profit for the six months ended 30 June 1996 Increased by 14.9 % to FF 3.435 billion.

After interest expenses resulting from the acquisitions made by the group, 1996 interim profit on ordinary activities before taxation, employee profit sharing and capital gains and losses 12.1 % to FF 3.086

Tenneco unveils \$3bn acquisition plan

COMPANIES AND FINANCE: THE AMERICAS

By Tim Burt

Tenneco, the US conglomerate. yesterday unveiled plans for a \$2.5bn-\$3bn acquisition spree to double the size of its packaging and motor components interests. its shiphuilding and energy divisions - said it was in talks with a number of target companies, particularly in the European plastic packaging industry.

Mr Dana Mead, chairman, said the group could fund acquisitions of np to \$2bn using existing reserves and horrowing facilities, and would issue paper for further deals.

might not take place until He highlighted Tenneco's the spring. Nevertheless, he hinted at a new business leg international packaging and cartons husiness as the most for Tenneco Automotive, ope likely area for bolt-ons. "We want to lift the sales of the world's largest

exhaust and shock absorber in international packaging from about \$300m to \$800m; manufacturers. The group - which cast its we will do so almost excluaye over Lucas Industries The company - currently sively hy acquisition and earlier this year - was said in the process of demerging now is the time," he added. to be keen to bolster its Some industry analysis after-market operations and identified the packaging arm of BTR, of the UK, as a establish a presence in autopotential target, while others motive electronics. Mr Mead was speaking in suggested Tenneco could be interested in underperform-London, where Tenneco yes-

terday launched a series of ing companies such as meetings with institutional Rexam of the UK or Arjo investors ahead of the \$4.6bn Wiggins Appleton, the Frandemerger of its energy divico-British group. Mr Mead refused to name sion, which is being sold to

El Paso Energy, and the companies it was talking to, and warned that a deal

Bristol-Myers refocuses on drugs research The US group is redoubling its

efforts to develop new products

the world's largest pharma-ceuticals companies. its record of developing new drugs and hringing them to market is relatively poor. So the company's decision to recruit a new bead of pharmaceutical research last week may be the oext best thing to a drug discovery.

The appointment of Dr Peter Ringrose to Bristol-Myers is seen as an impor-tant step for the US drugs company, according to analysts, hecause he has a new products,

As bead of Pfizer's UK research facility in Sandwich, Kent, he helped hring to the market some of the big-selling drugs which in the past 10 years have catapulted Pfizer from an also-ran into one of the most successful pharmaceutical companies in the

been exceptionally produc-tive," said Mr Kenneth Kulju, an analyst at UBS Securities. Bristol-Myers has brooght

soma drugs through its pipe-line, but not the blockbusters produced by some of its rivals; and its best-selling lines recently have been products llcensed in from other pharmaceutical or hiotechnology companies.

By John Authers in New York

International cross-horder

mergers and acquisitions

had already reached record

levels for the year before the

proposed merger between British Telecommunications

and MCl, according to a sur-

vey published yesterday by KPMG Peat Marwick, the

In the first nine months of

the year, purchasers spent

\$181.7bn on acquisitioo tar-

gets whose pareot compa-

nies were based in a differ-

eot country. Activity picked

up substantially in the third

quarter, with the total vol-

ume of husiness by the end

of June having been 6 per

cent below its levet for the

The previous record for

the first nine months of the

year. set in 1995, was \$173.7bn. It means that

global cross-border mergers

and acquisitions activity is

now double its level for the

same period of 1992, wheo the total volume of business

However, the total number

of deals dropped signifi-

cantly, from 4,536 to 4,016,

with buyers concentrating

Mr Steve Blum, a corpo-

rate finance partner with

KPMG, said conditions for

cross-border deals had never

been better. "Low worldwide

interest rates and lofty

global slock markets, which

lower financing hurdles,

together with healthy eco-

nomic conditions in most of

the developed world, helped

7'

to fuel deals, " he said.

was \$90.1hn.

on large targets.

first six months of 1995.

accountancy firm.

B ristol Myers Squibb has a problem: in spite of being coe of licensed products, it is dan gerous to depend on products from other companies. argues Mr Shah. Competition to huy in

drugs is fierce, making it an increasingly expensive option. Moreover, Bristol-Myers is spending more than \$1bn on its research effort this year - a high cost base to cover if few successful new drugs are being pro-

duced. There are some potentially interesting products down the road for Bristol-Myers hut "the pipeline is considstrong record in developing ered to be somewhat early", according to Mr Kulju,

Concern about a lack of new products in the pipeline bas been beightened, because Bristol-Myers's higgest-selling pharmaceutical product, Capoten, lost patent protection earlier this year. leaving a potential hole in the company's revenues.

In fact, the impact on sales world. "There is no question that Pfizer's Sandwich group has the some had feared, because its effects were mitigated by has been less dramatic than effects were mitigated by increased sales of licensed products, such as Taxol, a cancer drug, sales of which rose 34 per cent in the third quarter of 1996, relative to

the previous year. Still, at a time when the top US pharmaceotical companies are producing earn-Myers managed to increase

spin-off its Newport News

Shiphuilding husiness The terms of the demerger, expected to involve oneoff charges of up to \$400m, were approved earlier this week hy US tax authorities. Of the charges, about \$250m was related to restructuring

\$4hn of corporate debt, while the remainder was linked to stock-sharing, pensions and advisory fees. Although he admitted the

exceptional costs would dent Tenneco's fourth-quarter profits, Mr Mead said: "It's like Wagner's music, not as bad as it sounds - particularly given the scale of the transformation wa are undertaking."

Moreover, be said Tenneco has dogged the share price would consider rewarding in the past two years.

investors with a share buy back once the demerger had been completed.

vatives

Son Marsia

(1

42 J

.

۵

401

 $X_{i} \in X_{i}$

Senior company officials advised by Lazard Brothers and Morgan Stanley - predicted such a buy back would avoid excessive shareholder dilution in the event of issuing paper to fund an acquisition

Since 1994, the company has bought \$770m of its own stock and spent \$2.4bn on acquisitions.

Mr Mead said the company intended to use institutional meetings in London and 15 US cities to persuade investors that it was abandoning the conglomerate tag, which

KPMG revenues rise 8% in year

By Jim Kelly, Accountancy Correspondent

KPMG, one of the Big Six global accountancy groups, reported an 8 per cent rise in worldwide revenues for the year to September 30, from \$7.5bn the previous year to \$8.1bn.

The growth rate was seen as mildly disappointing. "We have got to be growing faster." said Mr Jon Madonna, KPMG chairman. "I was hoping to see better bnt it is acceptable."

The firm had invested "bundreds of millions" of dollars in information technology and developing new products for clients, be said. This included abont \$500m a year on technology and more than \$100m on prodncts. As a result the firm was looking to improve growth over the next year. Andersen Worldwide, the umbrella organisation for Arthur Andersen and Andersen Consulting, bas led the results announced to date far this year, with revenue growth at 16 per cent in 1996 to \$9,4bn.

Mr Madonna said he saw further consolidation among tha big accountancy firms, bnt said KPMG would grow mainly from within rather than through acquisitions. He said all sides of the business bad performed well over the year, but stressed that significant growth in revenues was likely to coma from the consulting side of the business rather than the traditional hackbone of anditing and tax.

"If yon look at where the great opportunity is, it's on pe consultin

Peter Ringrose: has strong record developing new products Bristol-Myers Squib: looking for drugs blockbuster Share prices (rebased)

drugs

able position.

bold set a goal of obtaining of the time required to dis-approvals for at least 10 new cover and develop new chemical entities - a genuinely new drug - by 2000. to improve its new product record, it will find Itself in

He also said he expected the company to launch new products in its non-pharmaceutical businesses, which include consumer products such as the Clairol haircare ings growth rates well into range. Furthermore, the double-digits in spite of company has increased its falling prices, Bristol drive to cut costs under a new chief financial officer,

Sales for the full year 1996 should enjoy growth close to the increase recorded for the first nine months of the year. Growth in profit on ordinary activities before taxation, employee profit sharing and capital gains and losses should equal the rise in sales after allowing for the increase in the Group's interest expenses.

1996 net profit before capital gains and losses after minority interests should advance more strongly than in 1995, despite the increase in taxation and the portion paid to minority interests.

L'ORÉAL • 41, rue Martre - 92117 CLICHY FRANCE -Phone : + 33 1 47 56 70 00 - Fax : + 33 1 47 56 80 02



incorporated in the Republic of South "ICI" or "the Company")

RESULTS OF ELECTION TO RECEIVE A FINAL DIVIDEND INSTEAD OF THE CAPITALISATION AWARD AND AN ELECTION TO SUBSCRIBE FOR NEW SHARES

The right of election to receive a final dividend instead of an award of capitalisation shares ("the Capitalisation Award") and the right of election by those shareholders electing the dividend to apply the dividend in subscribing for new JCI shares ("the Subscription") made to ordinary shareholders registered at the close of business on Friday. 27 September 1996 ("the Record Date"), closed at 16h00 on Friday, I November 1996. The weighted average traded price of JCI ordinary shares on the Johannesburg Stock Exchange on Thursday, 31 October 1996 was R48.31837. Accordingly, the Capitalisation Award and the Subscription for new shares was determined as a ratio of 1.158979 new shares for each 100 shares held on the Record Date.

Elections to receive the final dividend of 53 cents per share in respect of the year ended 30 june 1996 instead of the Capitalisation Award were received in respect of 100.647,221 shares. Accordingly, a final dividend of 53 cents per share was declared on 5 November 1996 on 100,647,221 ordinary shares in respect of the year ended 30 June 1996. Elections to apply this dividend in subscribing for new shares in JCI were received in respect of 61,633,539 of these shares. An amount of R32,665,775 was therefore applied in terms of the Subscription. Accordingly, 1,298,215 new fully paid JCI ordinary shares of 0.000671579 cents each have been allotted in terms of the Capitalisation Award and the Subscription and the issued share capital of JCI has been increased to 152,371,986 ordinary shares.

The listing of 1.298,215 new ordinary shares in JCI will commence on the johannesburg Stock Exchange from the commencement of business on Wednesday, 6 November 1996.

Cheques in respect of the final dividend and shares sold for the benefit of shareholders, as well as share certificates, will be posted to shareholders on or about Wednesday, 6 November 1996.

Johannesburg 6 November 1996



i you look at all then major drugs, they have all 9 per cent in the third been licensed in," says Mr quarter. Hemant Shah, an analyst at HKS, the independent research firm. "They need to develop a more commercially driven research effort."

after-tax earning But the company has ambitions to improve its peryear. incoming chief executive officer Mr Chartes Heim- be felt for five years because

Mergers and acquisitions

activity reaches new high

offerings (IPOs) in a single month hit a record in Octo-

A total of 106 companies

issned public equity for the first time last month, break-

ing the previous record of

100 set in November 1993.

That figure includes all new issues in the US, including

closed-end funds and real

In terms of money raised.

last month's \$6.3bn proceeds

fell short of record tevels. About a third of companies

going public in Octoher

So far this year, 700 com-panies have gone public in the US market, raising

found that acquirers were

becoming more selective,

with sharp slowdowns in

transactions targeting China

and India. This was part of a

"flight to safety" with com-

panies finding tess incentive

to take the risk of investing

in emerging nations in a

The greatest volume of

activity was between the US

and the UK. UK companies

invested \$11.42hn in US com-

panies during the first nine

search for higher returns.

classified as high-tech.

estate investment trusts.

writes.

October IPOs top 1993 record

The number of initial public \$41bn, according to Securi-

ber, according to the latest' on track to beat the 1993 numbers released by Securi-ties Data. Tracy Corrigan The Securities Industry

The transformation of Bristoi Myers's research effort cannot tha moment, BMS appears formance. In a letter to happen overnight. Analysts sbareholders earlier this say the impact of Dr something of an anomaly. Ringrose's arrival may not

ties Data. If activity contin-

ues anace, the IPO market is

Association expects that

1996 will set records for

equities underwriting and

trading in the US market.

was a unique year, and one

the industry would have dif-ficulty matching," said Mr Jeffrey Schaefer, SIA senior

vice-president for economic

research. "This year's strong equity market bas

made it more coodneive for firms to raise equity capital rather than debt to finance

expansion," he said. The cli-

mate has also been helped hy beavy inflows into equity

This was almost exactly

reciprocated by US compa-

nies which invested \$11.67bn

in the UK, significantly more

There was also a sharp

increase in US activity in

Latin America. US compa-

nies invested \$2.4bn in Vene-

while the region as a whole

attracted investment of

\$10.04bn, 59 per cent higher

than in the equivatent

than last year's \$9.16hn.

mutual funds.

agement husin

However. KPMG also \$1.6bo to buy AIM, a pri-bund that acquirers were vately held US money man-

mergers and acquisitions zuela alone (up from \$31m).

Many people thought 1993

iorce Those who bave chosen to go It alone, like Pfizer and Eli Lilly, bave already shown their strength. For

But if Bristol-Myers fails

an increasingly uncomfort-

Tha concentration of mar-

ket share among the world's

largest pharmaceuticals

companies in recent years

has already forced some of

those under pressure to join

Madonna said. The investment and strategic moves KPMG bad made had ensured it would be in a strong position for the future. "The road we are on is the right road," he

Tracy Corrigan | said.

FLEMING FLAGSHIP FUND

Société d'Investissement à Capital Variable Furopean Bank & Business Centre, 6, route de Trêves L-2633 Senningerberg, Grand Duchy of Luxembourg R.C. Luxembourg No. B 8478

Notice of **Annual General Meeting**

NOTICE is hereby given to Shareholders that the Annual General Meeting of FLEMING FLAGSHIP FUND ('the Company') will be held at the registered office of the Company at European Bank & Business Centre, 6, route de Trèves, L-2633 Senttingerberg, Crand Duchy of Luxembourg, ou Wednesday 20 November 1996 at 3:00 p.m. for the purpose of deliberation and voting upon the following avendat agenda

1. Submission of the Report of the Board of Directors and of the Auditor

2. Approval of the Annual Report for the financial year ended 30

June 1996: 3. Discharge of the Directors in respect of their duties carried out for the year ended 30 June 1996

4. Election of the Directors and Auditor;

5. Declaration of dividends for the financial year ended 80 June 1996; 6. Any Other ausiness.

Resolutions on the agenda of the Annual Geoeral Meeting will require no quorum and will be taken at the majority of the Shareholders present or represented.

A Shareholder entitled to attend and vote at the meeting may appoint a proxy to attend and vote on his behalf and such proxy need not be a Shareholder of the Fund.

In order to be entitled to attend the meeting, holders of bearer shares must deposit their bearer share certificates seven working days prior to the meeting with the following institution:

Kredicibank S.A. Luxembourgenise, 43. houlevard Royal. L-2955 Luxembourg

Roheri Fleining (Switzerland) AG, Röschibachstrasse 22, CH-8037 Zürich

aana Gommerciale Italiana SpA, Corso di Porta Nuova 7, 1-20121 Milano

Banque Dewary S.A., boulevard Anspach 1 - bte 39, B-1000 Bruxelles

Creditanstalt-Bankverein Aktiengesellschaft, Schottengasse 6, A-1010 Wiett

aHF-Bank Aktiengesellschaft, Bockenheimer Landstraße 10, D-50323 Frankfurt/Main

Banca Exterior de España Argentaria, Carrera de S. Jerónimo 36, E-280t4 Madrid

Shareholders who cannot personally attend the meeting are request ed to use the prescribed form of proxy (available at the registered office of the Company) and return it at least 7 working days prior to the date of the Annual General Meeting to the Company, c/o Fleming Fund Management (Luxembourg) S.A., L-2888 Luxembourg.

FLEMINGS

By Order of The Board of Directory HENRY C. RELLY, October 1996

months, in 134 separate period of 1995. deals. Since then, the US has This was almost back to seen both the BT deal and the peak of 1994, when 210 the agreement hy Invesco, a deals brought \$11.12bn into UK fund manager, to pay the region.



والمرجوع المرجع والمرجع والمرجع والمرجع والمحدور

COMPANIES AND FINANCE: ASIA-PACIFIC

NatWest to buy out Newcrest puts rejection behind it Wheelock venture

By Louise Lucas In Hong Kong

National Westminster Bank of the UK is to buy out Wheelock, the Hong Kong conglomerate, from its Hong Kong investment banking joint venture after just two years in partnership.

NatWest said it aimed to step up Wheelock NatWest's activities in trading equities and equity derivatives, but these more risk-oriented businesses would need more capital and tighter regulation. That could be more easily bandled in a wbolly. owned vehicle, where one entity has full control, the bank said.

Mr John Howland-Jackson, Asia Pacific chairman of NatWest Markets, said tightened regulation had made the split inevitable: the bank is regulated by the Bank of England while Wheelock is

evenues

Tre 8°.

in year

1.21

····

1 1 1 1 1

1.71 7.835

-

....

unregulated. "There is, as yon build a and entertainment group, significant business (in securities and especially derivatives trading), a perception that there could be greater difficulty in controlling all Kong. "You only need look those risks if you are a joint at the Hong Kong airport venture, if you do not own it all yourself," he said. "Mr Nick Sibley, managing affiliate Wharf. All the other

the Wheelock arm responsible for the joint venture, said more amicable between of the split: "It's not the best option (for us), but it was really the only option. The

only sensible option." But Hong Kong analysts. two shareholders. pointing to Wheelock's hapless record with partners, reckon the split may have been forced by a falling out. NatWest has been building up its other investment banking activities in Asia. with a recent expansion of

its equities business in Tokyo, and admitted that it had "outgrown" the partnership with Wheelock. Wheelock prides itself on its role as a "bridge between East and West". The invest-

ment banking venture was its most high profile tie-up. Its remaining venture, with Foster's, the Australian brewery, in China, was initially capitalised at US\$28m. A retailing joint venture with Virgin, the UK aviation never got off the ground. One broker said that the

Wheelock group is generally held in poor regard in Hong railway projects: no-one is involved with Wheelock or director of Wheelock Capital, developers are in consortia in 1995.

it's because they are much themselves." The joint venture had already absorbed an investment of US\$125m from the

other were Mr John Quinn, Neither eide would dis-Newcrest chief executive, close the payment being and Mr Robert Champion de made by the NatWest group, Crespigny. Normandy which will appear in Whee founder and chairman lock's accounts as an excepboth accountants turned tional item next year. mining executives. The investment manage The two had croseed

ment side of Wheelock Nat-West, whose purpose came into question after Nat-West's acquisition of the Gartmore fund management group, was shut down last month. NatWest Markets, the

West Bank and Wheelock'e erstwhile partner in the pan-Asian joint venture, is expec ted to complete the acquisition of Wheelock's 50 per cent stake by the end of the month, pending approval from the two partnars'

boards. Wheelock NatWest, which formally opened its doors in the second half of last year. achieve."

interests to form Newcrest. One newspaper went so far as to illustrate its story with global corporate and invest-ment banking arm of Nata drawing of Mr Quinn bolding a pistol to the head of Mr de Crespigny. This was the wrong image. With hind-

personalities.

sight, it would have been more appropriate to have sbown Mr Quinn shooting himself in the foot. Mr Quinn says ruefully: We didn't achieva our objectives and the invest-

expects to become profitable next year. It was independently ranked fifth in Hong Kong initial public offerings

Sony Music tumbles 53%

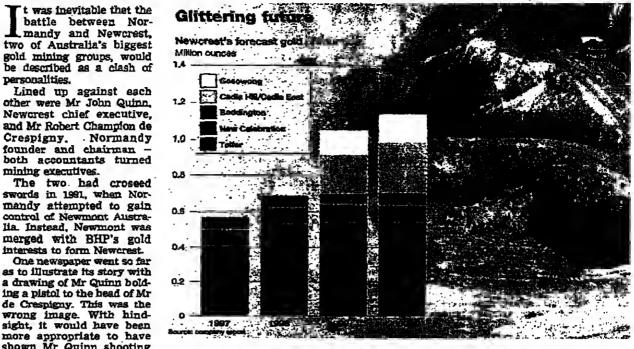
By Gwen Robinson in Tokyo demand for Sony Music's

Sony Music Entertainment, profit plunged 53.1 per cent

of advertising and marketing Sales in the first half to

domestic and foreign CD and to fall 9 per cent to Y104.2br cassette tape titles, although amid a downturn in demand

over 1,000, down about 200 from the previous year. Net profit for the full year is expected to decline 38.4 per cent to Y7.3bn.



Spurned by Normandy, the gold miner is looking to exploit its exploration skills

into one organisation under the Normandy hanner. Newcrest stepped in at the

last moment and sank that ment community was not deal in the hope that it could push forward its own merger

It was able to halt the Normandy group merger because it had acquired a 14.9 per ceot stake in Normandy and 10.5 per cent of Mr de Crespigny'e Poseidon Gold (PosGold), mostly from Minorco, an offshoot of the Anglo American-De Beers group of South Africa.

For Newcrest, the idea of a

seemed logical, bot neither Mr de Crespigny completed his merger at the sec-ond altempt and Newcrest Normandy nor many Australian investors liked the idea. "The investment commuwas left with a big loss nity did not like us replacing the certainty of the Normore than A\$100m at present values - on the A\$470m mandy merger with the (US\$370m) it paid for its Normandy and PosGold etakes. uncertainty of the one we proposed," Mr Quinn says. "Now," eays Mr Quinn, Normandy didn't want "we have to do a job of conthe transaction and made it veying to the investment quite clear they didn't want community thet Normandy

was not the whole story. We Ultimately, Newcrest need to refocus investors on could not persuade Norwhat our future will be." mandy or the important shareholders in both compa-The present jewel in Newcrest's crown is the Telfer nies, and was forced to withgold mine, in Western Australia. Telfer produced draw in June.

365,000 troy ounces of gold in the year to end-June, and this is scheduled to rise to nearly 600,000 ounces in the next three years.

19

Mr Quinn is also excited by Newcrest's two development projects: Cadia Hill in New South Wales, and Gosowong, in Indonesia.

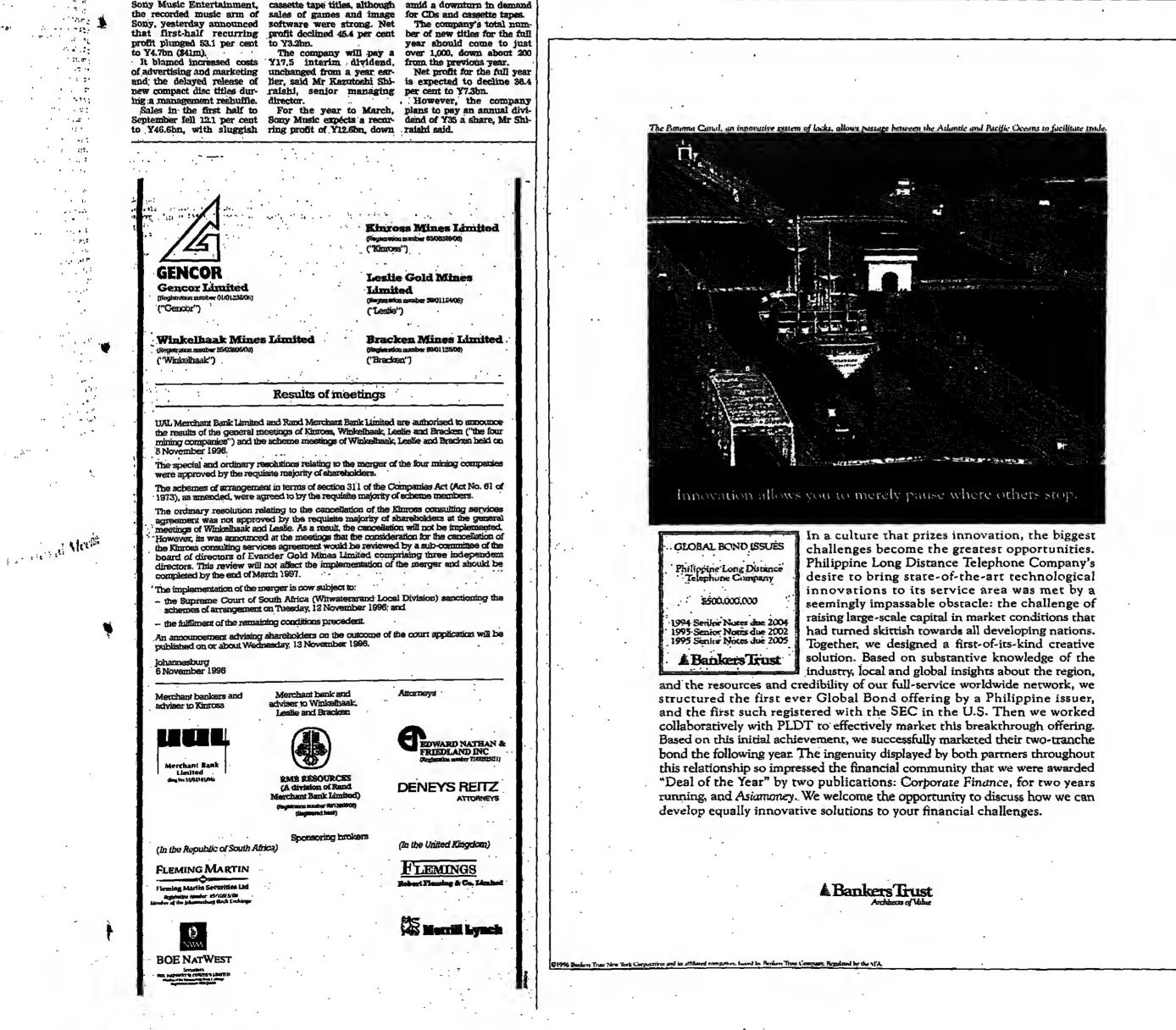
Cadia, due to start up by August 1996, has a resource so far of 7.2m ounces of gold and 556.000 tonnes of copper. Annual output of 293,000 ounces of gold and 24,000 tonnes of copper is expected.

osowong is much J smaller, but is important as Newcrest's first project outside Australia, For capital expenditure of about A\$70m, Newcrest sees Gosowong producing 150,000 ounces of gold a year, possibly from the middle of 1998.

Newcrest will be producing about 1.2m ounces of gold by 2000, says Mr Quinn. Last financial year its output was 582,000 ounces, down from 649,000 in the previous 12 months.

In future, says Mr Quinn, Newcrest will rely principally on exploration skills, rather than acquisitions, to generate growth. "Certainly some international investors prefer large, liquid gold stocks. But there are other criteria, such as growth in production. And we offer that by going from 600,000 ounces a year to 1.2m ounces in two years' time."

Kenneth Gooding



ever, was far from perfect. Mr de Crespigny was already putting together a merger of his own, drawing his 39.9 per cant. Sales are likely (complex mining interests merger with Normandy

wildly enthusiastic about what we were trying to proposals. Newcrest wanted a merger with Normandy to create an Australian company reedy to take on the biggest competitors in the world. Newcrest's timing, how-

COMPANIES AND FINANCE: ASIA-PACIFIC

Move to new technology hurts Nintendo

By Michiyo Nskamoto in Tokyo

Nintendo, the Japanese maker of video games, yesterday unveiled a 53 per ceut drop in parent recurring profits in the first half, as users shunned the last generation of Super Nintendo games machines and sales of software plummetted. The company said that the drop in its 16-bit Super Nintendo sales was in line with expectations, amid the transition to next-generation technology, which has been brought to the market in the form of Nintendo 64, an advanced 64-hit games mechine.

Recurring profits dropped more than half, from Y63.9bn to Y30bn (\$263.6m), while sales for the first balf fell slightly, from Y135.2bn a year ago to Y130.2bn.

Ninteodo kept its full-year fore-cast more or less unchanged, at recurring profits of Y85bn and net profits of Y48bn. Sales, however, are now expected to bs slightly higher than initially forecast, et Y340hn, because of an increase in production of the Nintendo 64. Nintando said thet the Super

Nintendo machines – known as Super Famicon in Japan - and software had suffered from the transi-

plunged from 13.99m units in the first half last year to 5.2m.

The company had not been able to overcome the drop in Super Nintendo sales with higher sales of the Nintendo 64. Although the new machine has been popular - Nintendo sold 1.16m units in Jepan and 800,000 units in the US - there have been few software titles to support greater shipments. Nevertheless, Ninteudo expects

to ship a total of 6m of the 64-blt games machines in the full year and 12.3m software units. Demand are leunched there ou March 1.

tion to the advanced format. Sales has been extremely strong in the of software for the 16-bit machines US, where the company sold 400,000 machines in the first week of its launch.

The company is also likely to be supported by currency gains amid the yen's weakness against the US dollar, said Mr Hironobu Sawake, industry analyst at Nikko Research Center in Tokyo.

The number of software titles available for the Nintendo 64 is to rise to 10 in Japan by the end of the year and eight in the US. Nintendo is also looking to strong sales in Europe when the machines

"Titles will increase without e doubt, and when that happens they will be able to echieve firm profits." Mr Sawake said.

Mario Cart, a popular game that is available in the earlier format, is expected to be one of the upcoming titles that will support strong demand, he notes.

Nevertheiess, Nintendo still face strong competition from Sony in particular. Among the competing edvanced-generation video games machines, Sony's 32 bit PlayStation is proving to be the strongest seller yet in the Japanese market, accord-

First-half |Li lays foundations for second fortune setback After the sale of Star TV, Pacific Century is turning towards financial services

at Japan Energy

By Gwen Robinson in Tokyo

Jepan Euergy, a leediug mining development and petroieum refining group, announced a 23.5 per cent decline in interim recurring profits to Y944m (\$8.3m) for the half-year to September. The company said the fali

was due to increased price competition following sweeping deregulation of Japan's petroleum industry.

Although overali sales rose hy 9.5 per cent to Y691.42bu, rising crude oil prices and a deterioration in the profitahility of the petrochemicals division wiped ont some ¥12hu iu profit. The rise in crude oil prices is expected to reduce recurring profit by a further Y3bn in the second half, the company said.

Cost-cntting meesures worth some Y10bn and foreign exchange geius of Y1.4bn failed to offset the first-baif fall in recurring profits. However, e surplus of some Y4bu from the sale of securities holdings helped uet profits soar by 61.5 per cent to Y1.62bn, with earn-iugs per share rising to Y1.49 from Y0.92 a year earlier.

For the full business year, Jepan Energy expects recur-ring profit of Y6hn, down Y2bu from e revised estimate made in August. hecanse of the deley between increases in crude oil prices and the time they are reflected in product prices, said the company. The result, however, would come in higher than the previous year's ¥5.8bn.

The petrochemical division, which has suffered from feiling demand end increases in other raw materials prices, will just hreak even for the full year after 1995-96. However, the company said it intended to make up the sbortfell through restructuring measures worth some Y12bn annually, the officials sald. Sales for the full year are forecast at Y1,500bn, up from last year's Y1,353hn, on an in-honse dollar exchange rate of ¥110 and due partly to government ou estimates that crude oii moves to cut prices of drugs priccs will everage \$21 a evailable under the national heeltb insureuce (NHI) barrel. Net profit is expected to scheme, and partly to total Y6.1bu, or Y5.48 a declines in over-the-counter share. The company will not retail prices for the compapay an interim dividend, but uy's products. expects to make an annual payout of ¥5 e share. outlook for the pharmaceuti-

biding his time, plot-K biding his time, particular ting his moves and Glory insurance subsidiary preparing to pounce. The Hong Kong chairman of Pacific Century is steadily licence. laying the foundations of a second fortune with the booty from his first - the sale of Star TV, the Asian

satellite broadcaster, to Mr Rupert Murdoch's News

ichard Li has been sector. The group's Top

Corp. It is e hard act to follow. Having huilt Star since its foundation in 1990, he sold it for just under US\$1bo, with the final tranche disposed of last year. It was e big deal for any businessman. But Mr Li was just 23 when Star was born. The question is, can he do lt again? Now aged 29, Mr Li

appears to be taking a more measured approach. "More risk averse" is how he describes his strategy at Pacific Ceutury, which he of fight". formed in 1993.

Gone are the glitzy businesses of television and telecoms, Instead he is huilding his new ambitions on property, financial services and insurance. There is a change, too, in

his style - once criticised as Mr Li is wary. high-handed. "In the past yes, I was ebrasive", he says. "But that was necessary in TV." In his new businesses, delegetion is the preferred

route But a lower profile of late points to preparation, not inaction. "He is a chip off the old block", says one associate, referring to Mr Li Ka-shing, Richard's father, who has risen from manufacturing plastic flowers to dominate much of the territory's business. "Dealmaking is in his genes", rat race." adds one local banker. And if the sectors in which he is now focused might appear stald after TV, they offer

plenty of potential. "The prospects in China are staggering", says Mr Li, referring to the insurance either we have started or he says.

bas set up representative offices in Beijing and Shanghai as a step towards a More significant, the group has secured an alliance with China Insurance, through the sale of a 20 per cent stake in Top Glory's holding company to the mainland-backed insurer.

While Peclfic Century's insurance amhitions in China are progressing, Top Glory has cemented its position in Hong Kong. "We are now the third largest in terms of premium sales", Mr Li says, citing incentives such as the sale of e 25 per cent stake in the insurance arm to management. "We are forcing them to upgrade the computer system. But they want a quicker break even. I love that kind

In property and infrastruc-ture, Pacific Century has invested ecross Asia, from India to Singapore and southern China. But in spite of his war-chest, and the fact that 90 per cent of the company remains in cash.

"We hid for one of the subwey projects, ahout US\$2.5bu", he says, "We lost and I don't regret it". Mr Li's approach is based

on number-crunching rather than the gut feel employed hy many of the territory's property tycoons. And he thinks some of the numbers do uot edd up.

"There are still people chasing after values which I think are not justified in terms of fundamentals. I have a strong aversion to the

Such e strategy means that most of Pacific Century's earnings still come from interest income. But that will change. "In five years the main source will be an operating husiness thet



am going to add oue or two more legs." The Pacific Century chief Pacific Century - limited is guarded about where diversification in terms of these new legs might be, but says he is actively searching with the help of Gordon Capital, the Torouto-hased investment bank where he worked until returning to Hong Kong in 1990, and which he bought last year. Televisiou still holds some

appeal, hut Mr Li argues the market is now much more competitive than when Star pioneered regional satellite kill the golden goose," he television. "We had it easy", says

Star Mining, e smali Australian listed company that has been struggling to develop Sukhoi Log in Siherie, Russie's biggest known gold deposit, hopes to ing to Mr Sawake.

argues, will remain a dynamic regional centre so long as it achieves a reasonabls eutonomy ou day-to-day affairs and, crucially, its executivs is selected on merit. Then, he believes, Hong Kong husiness is perfectly poised to capitalise on the mainland market.

As big e question, at least concerning his own strategy. is whether Richard will return to Hutchison Whampoa, the conglomerate controlled by his father. Family succession is an established trend in Hong Kong, as in much of Asia, with business dynasties looming large over the economy.

Given the size of Hutchison and its parent company, Cheung Kong, the aspirations of Richard and his elder brother Victor is the etuff of frequent speculation although their father

shows no sign of flagging. Richard Li is not e fan of family succession. Personally, he says, he does not think it is a good idea. "But that doesn't mean it is doomed to failure. Look at the Walleubergs", he says. Business relations within his own family are fine, says Richard, dismissing the Idea of sihling rivalry with his brother, the deputy chair-man of Cheung Kong, the flagship group of ths elder Li

The top joh at Hutchison, with his broader strategy of seys Richard, does not attract him - at least for the moment, "Maybe something sectors, broad diversification will change later ou", he in terms of regional markets.

But for now it is clear Mr Li dismisses the idea where his priorities lie. Although he is deputy chairthat Pacific Century's' geographical spread, and the choice of Singapore for its man of Hutchison, It is his own business that takes his -sole listing, reflect concerns about Hong Kong's prospects energies. "I spend 90 per after its return to Chinese cent of my time at Pacific sovereignty in July next year. "I doo't believe China Century... I have an ohliga-tion to huild it up." The is so dogmatic that it will deals on the drawing board will prove whether he can.

His home territory, he

secutive year.

John Ridding

Star Mining and JCI in finance deal ohliged to contribute \$200m

By Kenneth Gooding, Ining Correspondent

finance and expertise.

tion outside South Africa.

Mr Bill Nairn, chief execu-tive, said Sukhoi Log could

At present Star envisages

Sukhoi producing about

600,000 ounces a year in an

initial phase, and eventually

phase alone is likely to be

over the next 18 mouths, to arrange for appropriate debt funding end guarentees sential for compistion of the first phase. If the JCI deal is scaled, all these conditions will be met and Star would get back the \$50m it has spent so far.

enlist JCI, the South African Star's share of Sukhoi Log mining group, to provide could be reduced from 34.88 per cent to 4.88 per cent as a The companies have signed a Memorandum of result of the arrangement Understanding which will hut Mr Rudolph Agnew, Star chairman, said yesterday provide the basis for JCI to that negotiations were takbuy up to 30 per ceut of ing place with "various Rus-Sukhoi Log for US\$250m and sian parties" to increase subto manage the project. The deal is in line with stantially Star's interests in JCI's policy of finding oppor-Sukhoi Log and a number of tunities to generate producthe satellite deposits.

The Russian state, with 38 per cent, and 9,600 employees, with 17 per cent, are the other main shareholders.

be one of the world's lead-Not the least of Star's diffiing gold producers into the culties has been the fact thet next century". Sukhoi Log has reserves and resources of 31m troy **Russia's Federal Security** Service, successor to the KGB, refused the company ounces of gold and four "sataccess to critical deta because gold reserves have ellite" deposits are estimated to contain 4.2m ounces. Star also has mining always been a state secret. Mr Victor Chernomyrdin. rights to an area of 105,000 sq km, ebout the size of

Russiau prime minister, England, in Russia's Irkutsk signed a decree removing the secrecy restrictions in September.

Mr Agnew said this made negotiations with JCI mucb easier. He said: "Although our agreement with JCI is about 2m ounces. However, our agreement with JCI is the capital cost of the first subject to various approvals on both sides. I see it as an important step forward in our determination to bring

Under the terms of its agreement with the Russian the Sukhoi Log and other government, Star was also projects to development."

HK Telecom advances 12% in first six months

By John Ridding in Hong Kong

Province.

ebout \$600m.

Hongkong

rates and prices.

double-digit increase in the first half as "no mean feat"

same period in 1995.

which is due to last until

The Hong Kong Telecom chief said that while dislogue on the issue would be intensifying, there would only be an accord if it was beneficial to shareholders. Increased competition underpinned the group's strategy of reducing dependence on internetional direct-dial services, Mr Cheung said. "Three years ago IDD formed some 63 per cent of overall revenues. It now represents abont 55 per cent." He said value-added

fax and voicemail products, tional direct-dial monopoly as well as Internet-related

2006. Teiecom

yesterday announced e. 12 per cent rise in net profits to HK\$5.39hn (US\$697m) for the six months to the end of Septembsr and called for

greater freedom in setting Mr Linus Cheung, chief executive, dsscribed the

given the increased competition in Hong Kong's liberalised domestic market and the assault on its interna-

20

In trading on Tokyo's cals industry in Japan, Mr stock market yesterday. Japan Energy feli Y2 to company's president, yesterciose nt Y383.

Government price cutting hits Shionogi

Mr Shiono said.

By Gwen Robinson

Shionogi, oue of the leading

Japanese manufecturers of

pharmaceuticals, reported a

decline in interim earnings

In response to the hleak

Shiouogi's unconsolideted

staff, from the current total of around 6,700, by 2000. ecurring profit for the first half to Septemher dropped To help reduce personnel, Shiouogi will promote Its 6.7 per cent from a year ear-lier to Y10.28bu (\$90m). early retirement programme Mr Shiono said that while end suspend the annual recruitment of nulversity sales rose 2.7 per cent to

graduates for 1997 and 1998, Y113.3bu, the rising costto-sales ratio had affected Shlouogi's research and earnings.

development operations will The company has elso another bout of drug price increased its R&D outlays, also be reorganised, said the presideut. Part of the R&D with the stress on basic unit which is currently cenresearch in cancer and biotred at the company's headchemical fields. querters in Osaka will be Net profit fell 13.3 per ceut

to Y4.8bn, or Y13.93 a share.

ing plan that will involve Boston in the US in January interim dividend of Y3.75 a to its husiness partner. cutting approximately 1,700 1997. sbare and leave the full-year Eli Lilly, of the US.

The cost-to-sales ratio is payout unchanged et Y7.5. For the full year to uext also likely to rise to 49.1 March, Shiouogi expects e per cent for the full year, fall in both recurring profit and sales for the second couup from last year's 48 per ceut

Full-year recurring profit Full-year sales of mainstay is estimated et Y20bn, down 9.7 per cent from the previantibiotics are expected to rise only marginally and will be further effected by ous year, on sales of Y225bn, down 0.2 per cent. Net profit is expected to fall 11 per ceut reductions under the governto Y10bn.

ment-sponsored NHI scheme. The poor first-half perfor-The expected overall sales mance failed to drag down decline includes a fall of Shionogi in trading on the Y2.6bn on the planned trans-Tokyo stock markst, where the shares added Y11 to

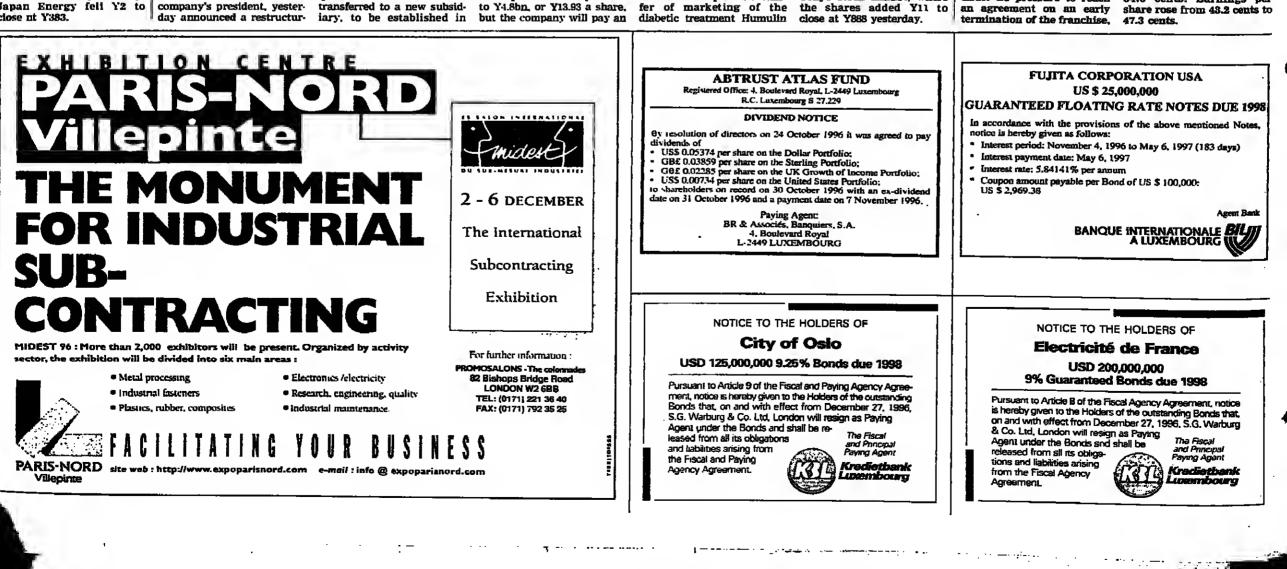
New rivals, including the for e 37 per cent rise in revetelecoms arms of Hutchison nue from other telephone and New World, have underactivitles.

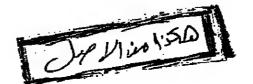
cut Hougkoug Telecom's Total revanues during the prices and eroded its market period climbed 9.8 per cent share. Mr Cheung said the company, ons of the territoto HK\$15.92bn. The increase included a rise of 4.8 per ry's largest companies and e ceut in internetional sersubsidiary of Cable & Wirevices, which in turn less of the UK, had lost 15 reflected traffic growth of 11 per cent of its international per cent. Growth in traffic market share in the first to China increased just 5 per balf, compared with ths cent.

Overall operating margins Reguletory issues are increased ous percentage important to the company's point to 38 per cent, while prospects at present, since Mr Cbeung cited steady its incrative internetional progress in the company's direct-dial monopoly is curthree-year plan to reduce rently under review. Mr the headcount by 2.500.

Cheung said yesterday, how-The interim dividend is ever, that the company was increased from 30.9 cents to under no pressure to reach 34.6 cents. Earnings per share rose from 43.2 cents to

Dun & E





FINANCIAL TIMES WEDNESDAY NOV

Mining

ce deal

elecom

ices 12%

A STATE

Recently, we pulled a D&B report on ourselves.

ix mont







21

It did wonders for improving our vision.

Companies worldwide use Dun & Bradstreet to clarify the potential of key business alliances. So, we decided to use our own strengths to see ourselves as we really are.

After taking a long, hard look, we saw a company that was too diversified, without a clear focus for future growth. The result was a bold new visionary plan-the spin-off of A.C. Nielsen and Cognizant Corporation as independent public companies and a refocusing on who we are and what we do best-creating solid strategic relationships between companies.

We are proud to introduce the new Dun & Bradstreet Corporation, which comprises three independent companies with outstanding reputations for quality, customer services and products. Companies known for helping customers grow their businesses.

We're now a \$2 billion corporation with 16,000 associates in 40 countries. Dun & Bradstreet is the world's largest source of business-to-business intelligence, helping other companies build strategic business alliances and long-term relationships. Moody's Investors Service is a global leader in rating debt. And Reuben H. Donnelley is the largest independent publisher and marketer of yellow pages in the United States.

Our sharper corporate focus now enables us to make faster, more responsive decisions, and to better anticipate the needs and desires of our customers and shareholders. Today and into the 21st century.

We are poised for a new era. Our vision has never been clearer.

The Dun & Bradstreet Corporation

Dun & Bradstreet/Moody's Investors Service/Reuben H. Donnelley



DB-UN-FT of

Visit us at http://www.dnbcorp.com

COMPANIES AND FINANCE: UK

Rise in UniChem's shares lifts value of its bid

Referring to Lloyds' recent

By Christopher Price

22

The battle for Lloyds Chemists intensified yesterday as Gehe of Germany returned to the fray, hidding £650.6m (\$1.06hn) in cash for the pharmacy chain. ther would rule out

The terms were similar to the German group's earlier hid, which, like a rival one from the UK's UniChem, was referred to the competition authorities in March. Both companies wera given epproval hy the government to proceed with their hids just over two weeks ago.

The value of the new 500ps-share offer failed to top

that of UniChem. After a rise fall in profits, he said: "Peo-in its share price, UniChem's ple who have talked of a offer was last night worth higher offer have closed 500.6p a share, or £651.3m. their minds to the events of The small gap between the the last seven months." rival offers raised specula-

Gehe bids £651m for Lloyds

tion that both suitors will offer more, a prospect nei-Gene had been expected to deliver a higher "knockout" offer for Lloyds. Disappointment in the market left

the disappointing perfor-mance of the UniChem share Lloyds' shares off 4.5p at 511p. UniChem shares rose 3.5p to 255p. Mr Dieter Kämmarar, price in the last two years. Lloyds shareholders cannot chairman of Gehe, said it be too confident of the pros-had made a "very fair" offer. pects."

'defer taking any action". Mr Kämmerer's comments See Lex

While he did not wish to

first nine months was up 21

per cent against last year,

Cost concerns behind cut in were dismissed hy Mr Jeff **M&S** forecasts Harris, UniChem chief executive. "Investors have shown what they think hy raising our offer price above Gebe's

A 9 per cent rise in the cost base, which held back Shares in Marks and Spencer fell 5 per cent yesterday and operating margins in the hrokers cut full-year forefirst half to a flat 12 per cent, surprised analysts. As a result, full-year forecasts were pulled back from about £1.16bn to about £1.11bn.

and the second second

However, most said investment in service at a time of strong sales growth was a logical move and could win the company valuable long-term market share. Furthermore, the extra costs could be cut in hard times. "It is a way of flattening out the peaks and troughs of the economic cycla," said one analyst.

entire product range.

if Marks and Spencer is the tortoise Sir Richard Greenbury, its chairman, believes, the market is the hare. M&S's share price fell by 26p, or 5 per cent, to 483p yesterday. But this

> created this year, which contributed to higher than expected costs. But to punish tha company for this is perverse Not only is the investment the result of attracting more customers to its stores but it is aimed at bolstering service, on a of the core values which underpins the group's success. Furthermore, the figures show that the M&S formula of product innovation, quality and service continues to fuel growth both in the UK and in newer markets like Europe and Asia.

> The rejoinder, of course, is that the tortoise gets there in the end. With profit forecasts for the year trimmed back to around £1.1hn, the share is on e forward price/earnings ratio of 18. The growth prospects of the company would appear to justify this slight premium to the sector.

Whitbread

Whithread's evolution from traditional hrewer to retail leisure group has left it basking in the glow of the UK's consumer spending recovery. Profits are growing at an impressive pace across its spread of husinesses, helped hy a £400m a year capital expenditure programme. It is little wonder the management sounds ehullient.

Nonetheless, the pace of investment has made earnings growth easy in a low interest rate environment. The prohlem is delivering a decent return in the longer run. Devid Lloyd Leisure, acquired for £200m last year, will scarcely cover its interest charges this year. A pipeline of new clubs could help echieve a 15 per cent pre-tax return in four years time; but a fall in consumer spending would bring those returns down again. Whithread's historic return on investment does not encourage confidence and the fashion for investment in pubs in the UK suggests

that such projects could soon become less profitable. The momentum within Whithread's husinesses should continue to drive profits faster than the stock market over the next two years, diluting such concerns. Whitbread's balance sheet can comfortably support its spending programme. In p/e terms, the shares are at only a small premium to the market. But while investors may make some hay during this hlast of consumer sunshine, the harvest from Whitbread's recent acquisitions could prove less bountiful.

More acquires. Swedish rival

By Michael Lindemann in London and Hugh Carnegy in Stockholm

More Group Share price (pence) 700

3800

More Group, tha UK's largest outdoor advertiser. yesterday announced the acquisition of its higgest

BP advances 9% in quarter increases were offset by higher feedstock prices. Capital expenditure in the

By Robert Corzine

British Petroleum yesterday reported third-quarter carnings in line with market expectations, as the company benefited from recent oil price rises, higher production and cost-cutting.

Net profits for the quarter were up 9 per cent to £650m on a replacement cost basis and hefore exceptional items. Net profits for the first nine months of the year

were a record £1.93bn, an 18 and chemical margins. per cent rise from last year. Profits from refining and Mr John Browne, chief marketing fell to £151m, executive, said much of the against £209m the previous rise was the result of "self-help" which BP defines quarter and £211m at this stage last year. The fall was in spite of a recovery in margins in the UK, where as higher volumes and costcutting. Higher oil prices and volumes caused year-onpressures from e retail petyear earnings in the rol price war eased somewhat in the quarter. Operating profits at the upstream oll and gas division to surge hy 33 per cent to £761m. But executives said much of thet gain was

chemical division were np £16m from the second quareroded hy tighter refining ter to £130m, as volume

WHITBREAD

Unaudited results for the six months to August 31, 1996

Turnover £1,505m +13%Pre-tax profit* £177.5m +14%

and should reach 25bn for the year as a whole. But daht levels continued to decline. Net debt at the end compared with a forecast of Septemher was \$6.5bn, well down on the \$7bn-\$8bn range of £420m-£465m. Sales from continuing operations range which the company is rose 9 per cent to £3.58bn. targetting. Gearing fell to 24 The shares, reflecting the per cent. US demand for LPG, page market's initial disappoint-ment over the profits, fell

get involved in an auction, casts as the high street retailer announced plans to create 2,000 jobs in the UK and abroad and interim results at the lower end of Lloyds, which has heen keen to get a resolution to expectations. the hid hattle, yesterday Sir Richard Greenbury, advised its shareholders to chairman, warned that extra investment to bring the total workforce to 57,000 would inevitably increase our cost

By Peggy Hollinger

base". He said it was necessary to satisfy M&S's growing number of customers around the world. He refused to quantify the costs hut said they were expected In spite of the market's to rise in line with sales.

disappointment, Sir Richard said the group remained "on track for doing what we want this year". With con-The announcement came as the group turned in an 11.6 per cent increase in sumer confidence returning to the high street, M&S was interim profits. Pre-tax profits of £430.1m (\$701.1m) against last year's £385.4m, upbeat ehout prospects for the rest of the year. He rejected suggestions thet M&S had reached saturation point in the UK, pointing out that only four stores currently carried the group's

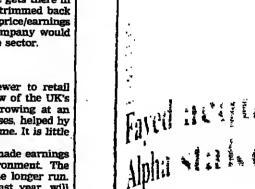
re price relative to the FTSE General Retails 105 says more about the market's excitable spirits than it does about the company's performance. Perhaps M&S's trading statements earlier this year fostered undue optimism; certainly there was little in yesterday's half year figures to justify much anxiety. The market chose to focus on the 2,000 extra jobs being

Marks and Sponce

LEX COMMENT

M&S

If there is a criticism, it is that the cautious pace of the tortoise can be painful. Did M&S have to wait 21 years after entering France to open its first store in Germany?



÷...

-

 2^{-1}

с (* К 5

ø

1

upturn 1 brewing (whithre:

He added: "We believe that There is an appetite for equi-tias and investors are excited by what they believe this comes down to a ques-tion of whysther Lloyds shareholders want cash or we can do with Lloyds." UniChem paper. Their offer is heavily dependent on what they make of the UniChem had sufficient finmerged business, but given ancing in place to increase the cash portion of its bid.

Earnings per share*	27.10p	+14.5%	
Dividends per share	6.25p	+9.0%	

*Excluding non-operating items

- This was a strong trading performance. Like for like sales growth was 5% with the remainder from acquisitions and new outlets.
- Trading cash flow continued to be good, helping to support a vigorous capital investment programme. Over £250 million has been invested so far this year to secure future growth.
- Our trading results confirm that consumer spending is on an upward trend and I expect this to continue. Competition, particularly in the eating out market, remains strong and at the same time customers' expectations in terms of value for money and quality of service have grown markedly.

Whitbread has worked hard to meet and frequently exceed these expectations. I am confident of the company's ability to compete successfully for an increased share of leisure spending.

Sir Michael Angus, Chairman

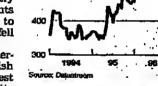
A copy of the unaudited results for the six months to August 31, 1996 will be available from the Company Secretary, Whitbread PLC, Chiswell Street, London ECTY 4SD

P - - -

competitor in Scandinavia for £78.1m (\$127m). The deal will he partly financed by a 1-for-4 rights

issua, at 600p a share, to raise £48.6m. The shares fell 13%p to 684p yesterday. More plans to huy Wenner-

gren-Williams, the Swedish group which is the higgest outdoor advertiser in its home market and has



rowings of £40m. Strong recently expanded eggrescashflow should cut this.

sively in Denmark. Mr Roger Parry, More's chief executive, stressed the importance of access to the Swedish market. Wennergren-Williams' dominance of that market was almost guaranteed, he said, because of strict planning restrictions on new advertising sites. "We are making this acquisition not hecause of the earnings kick but hecause of the long-term strategic prospects." With the deal partly

Henry Schroder, the investment bank, said it had included a tender element in the sub-underwriting arrangements for the issue. This was only the second time it had done so following its premiere last week with a £222m rights issue for Stakis. The tender element reduces fees and Mr Rohert Swannell, head of UK corporate finance at Schroder, said it was likely to be used increasingly frequently. He warned, however, that entire

funded hy deht, Mr Parry issues were unlikely to go said gearing would rise from out to tender for fear of scar-20 per cent to a pro forma ing off pension funds and 200 per cent, with net borother institutions.

MAM's defined pensions grow

By William Lewis

Mercury Asset Management, the UK's largest fund manager, disclosed yesterday that over the last six months it had won more than 40 mandates to manage defined contributions pension schemes in the UK.

Defined contribution schemes, through which members are able to huild up their own individual funds, are one of tha fastestgrowing areas of new husiness for institutional fund managers which have traditionally invested funds from defined benefit schemes.

Announcing a 29 per cant costs increasing hy 27 per rise in pre-tax profits to £81.8m (\$133m) for the six months to September, Mr Hugh Stevenson, chairman. said: "This husiness [defined contribution schemes] will on strengthening its US be an important source of investment husiness

revenue and we are encouraged by the position which we have achieved in this rapidly growing market". Turnover rose 26 per cent

to £162.5m mainly hecause of a higher level of funds under management, which rose 21 per cent to £85.9bn, and the early payment of performance fees hy clients.

Stripping nut the rise in equity markets, net new business increased by £2bn. Expenditure on systems and infrastructure, a higher provision for staff bonus payments and the consolidation of an Australian subsidiary resulted in operating

cent to £103.8m One analyst said MAM's strategy on possible acquisitions appeared to be unclear and that it needed to focus

COMPANIES AND FINANCE: UK

Upturn in brewing cheers Whitbread

By Roderick Oram, Consumer Industries Editor

Whitbread reaped the rewards of heavy investment in pubs, restaurants and hotels and an upswing in brewing profits yesterday, when it reported a 13 per cent rise in interim pre-tax Whitbread would grow by profits-to £178.1m (\$290m).

It kicked off what should be a "real humdinging results season for brewers and pub owners," one analyst said. For many companies, beer volumes are up despite poorer summer weather than last year and some margins have firmed.

But the company tried to moderate analysts' enthusiasm for the second half. It would lack, for example, the year earlier's 53rd week of trading and compstition remained fierce in the esting-out market.

In the six months to August, capital spending was more than £250m. Coupled with acquisitions, it drove net debt to £640m (£296m) for gearing of 27 per cent (12.5 per cent) and inter-

Mr Peter Jarvis, chief exec utive, said Whitbread had made-the three big strategic acquisitions it needed over the past year. Marriott in hotels, David Lloyd in sports centres, and Pelican in city

est cover of 12 times

centre restaurants. Now building thoss branda, brands developed in house and smaller opportunistic acquisitions.

Thus, the group was le likely to write off goodwill which it has had to pay on some acquired brands, he added. Including tax and goodwill written off. Whitbread's return on capital was 8.2 per cent against a cost of capital of 10.5-11 per cent, one analyst calculated. With the recent Pelican purchase hitting the current half, the return on capital will fall to 7.5 per cent. Pre-tax profits from restau-

rants, hotels and leisure rose 58 per cant to £56.3m on sales up 18 per cent. Pizza Hut and TGI Friday's profits were up 20 per cent. Whitbread Inns, the man-



Peter Jarvis: has made three strategic acoulsitions

aged houses, lifted profits 15 pub was up 7 per cent. per cent to £77.4m on sales up 14 per cent. Food sales were up 23 per cent, amusement machine revenue was

up 12 per cent and drinks 9 per cent. Whitbread Pub Partnerships, its tenanted honses, reported a 1 per cent rise in profits to £30.7m and a 3 per cent decline in sales, having on average 161 fewer pubs in the latest period. Profit per

StMichael

per cent to £30.8m on sales up 8 per cent in a market down 1 per cent, Whitbread's volume from existing brands grew 3 per cent but by 8 per cent including the Labatt UK acquisition. Take-home volumes were up 10 per cent.

Brewing profits rose 12.4

while Stella Artois was ahead 19 per cent and Hsineken Export 29 per cent.

Electric accuses CalEnergy

By Jane Martinson

at 633p a share. Northern Electric accused Mr David Morris, Northern CalEnergy. its Nebraskachairman, said the calculabased predator, of making "misleading" statements in tions behind this statement were "misleading" as they its official offer document used the gross amounts paid yesterday.

CalEnergy, the independent power producer, argued that its £759m (\$1.24bn) cash tributed about £540m in offer of 630p per share and 103p per preference share was "full and fair". It claimed that the £11 a

House almost two years ago which estimated Trafalgar's the offer was fair, pointing RESULTS

out by the regional electric-ity company since the abor-tive bid. Northern has disout the effects of a windfall special dividends, a share tax. Its offer was reduced by consolidation, and from the some £7m yesterday, adjust-National Grid demerger. ing for the number of shares Northern's advisers proin issue. share bid made by Trafalgar duced their own calculations It reiterated its belief that

56.5p next February.

at Northern's 494p share would now value Northern bid to be worth 732p a share once these pay-outs were price before bid speculation stripped out. They warned buoyed it.

shareholders not to accept CalEnergy emphasised the the offer and reminded them strategic value of the bid. of the special dividend of This prompted Mr Morris at Northern to say that "CalEnergy itself recognises the strategic and commercial advantages which Northern would bring to it. But it is trying to buy these benafits on the cheap."

Northern has two weeks to respond to the offer. It is to bring forward the announce ment of its interim results.

6.8

7.7

	Turnov	wr (2m)		n-tiez N (ferat)	Ø	S (p)	Current peyment (p)	Date of phymeat	Corresponding dividend	Total for year	Yotat indi your
Anglian Water 8 miths to Sent 30	413.3	(372.2)	132,7	(125.8)	46.7‡	(41.2)	10.2	Feb 17	6.9	-	30
seliving	305.6	(267.1)	32.2	(34)	201	(21.4)	5.65	Jan 20	5.25	8.2	7.7
ritish Airways	4,394	(4.029)	470	(430)	39.71	(33.8)	4.25	Jan 31	3.85	-	13.65
within Patroleum	31,688	(26,807)	2,830	(1.9824)	37	(23.2)	5##	Feb 3	4	-	15.25
cooper (Frederick) Yr to July S1	84.7	(87.9)	121	(3.964)	41.5	(3)	1.95	Feb 3	1.9	2.8	2,7
resion Land Yr 10 June 30	8.05	(7.58)	1.5	(6.84LA)	2	(8.2L)	nii	-	11	10	nit
hairy Crest - 6 miths to Sept 30	381.8	(365)	18.5	(15.4)	9.94	(9.3)	3.26	Jan 23	-		
lartiepool Water 8 miths to Sept 30	3.06	(2.98)	0.98	(0.94)	9.8	(9.7)	2.8	Jan 1	2.5	-	7.1
tarks and Spencer _ 6 miths to Sect 28	3,532	(3,248)	430.1	(385.4)	10.4	(9.3)	3.3	Jan 17	3	-	11.4
east6 mithe to Sept 30	162.5	(128.5)	81,8	(63.6)	30.9	(24.2.)	10	Jan 3	6	-	35#
owerscreen bit 6 mithe to Sept 30	151.8	(121.1)	20.4	(17.1)	17.3	(14.5)	2.8	Feb 13	2.5		9.2
Vr to Aug 31	131.1	(90.7)	3.031.9	(4.05¥)	8.4L	(19.8)	2	Jan 2	4	Ā	6
B miths to Aug 31	1,505	(1,327)	178.1	(158.1)	27.23	(24.16)	6.25	Jan 20	5.75		21.85
westment Trusts	MAN	1 (10)		ge (Em)	8	5 (p)	Current payment (p)	Date of payment	Corresponding dividend	Total for year	Total last year
Sertmore European	208,9	(178.5)	0.38	(0.281)	2.16	(1.65)	1.5	Dec 20	1.2	1.5	1.2
erman6 mitts to Sept 30	126.9	(-)	0.292	(0.2721)	0.7	(0.71.)		-	-	•	0.6
owland Yr to Sept 30	338.99	(325.63)	3.06	(2.65)	12.88	(11.27)	7	Dec 23	6.5	11	10
Montanare UK 6 mths to Sept 30th	135.5	()08.8)	0.46	(0.316)	0.97†	(1.27)					1.5
Schroder income	119.08	(106.85)	4.17	(2.09.)	5.27	(2.64	1.35	+		4.35	2 25

Earnings shown basic. Dividencis shown net. Figures in brackets are for corresponding period. After exceptional charge. Water exceptional credit. #Third interim: mail 14.25p (17p) to date. #On reduced capital. TOn increased capital. After for forma throughout. #Excludes 40p special. @Akn stock. \$USM stock. *Comparatives for months. #After exceptional charge. #Akn stock. \$USM stock. *Comparatives for months.

2.8

Jan 7

2.7

Fayed acquires Alpha stake

By David Blackwell,

e acquir

Granada, the leisure group, yesterday sold its 25 per cent stake in Alpha Airports, the airline services group, for £52.4m cash. It was bought by a private company owned by Mr Mohamed Fayed, chairman of Harrods.

A spokesman for Mr Fayed described the deal as a per-sonal investment that had no connection with Harrods. growth prospects.

His investment has been at least six months.

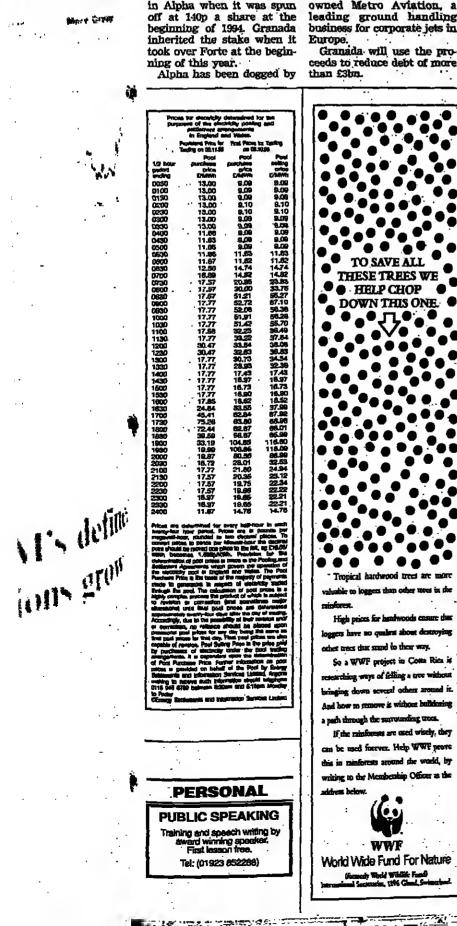
disappointing results in its in-flight catering business, and the shares have struggled to stay above 100p this year. Mr Fayed has paid 125p a share, a significant pre-mium to the market, which marked the shares up 1p yesterday to 105%p.

The deal follows last month's purchase of DFS, one of the world's biggest duty free shopping chains, by LVMH, the French huxury Mr Fayed believed that inter-national travel had great purchase earlier this year of Allders' duty free business.

Leaving aside the in-flight made through Cylena Estab. catering, shere is some logic lishments, which has an Mr Fayer's interest in the pledged not to make an offer airport retail division and for the remaining shares for the recently acquired 'US ground handling division Forte, the hotels group. Harrods has 48 airport outretained a 25 per cent stake lets and has for the past year

GROUP PROFIT BEFORE TAX UP £45 MILLION

RESULTS FOR THE HALF YEAR ENDING 28TH SEPT. 1996



TO £430 MILLION (+12%)

GROUP SALES UP £296 M TO £3.5 Bn (+9%) (from continuing operations)

DIVIDEND INCREASED BY 10% TO 3.3 p

INVESTMENT AND EXPANSION CONTINUES IN THE UK AND OVERSEAS

"I am pleased to announce a good half year performance, with sales growth across all areas of the business.

With increasing levels of consumer confidence now evident, zve zvill continue to meet the exciting challenges ahead"

> HIGHLIGHTS FROM THE STATEMENT BY THE CHAIRMAN SIR RICHARD GREENBURY

www.marks-and-spencer.co.uk

MARKS & SPENCER

INTERNATIONAL CAPITAL MARKETS

Sparkling performance by Spain and Italy Polish telecoms operator to raise \$115m

GOVERNMENT BONDS

By Richard Lapper and Ramraj Gogna in London and Lisa Bransten in New York

A sparkling performance by Italian and Spanish bonds was the highlight of a generally strong day on internatiooal bond markets, with tha Italian 10-yaar yield spread over Germany breaking through the 200 basis point mark.

Reports that Mr Boris Yeltsin's heart operation had been successful helpsd underpio the US and German markets, while investors in US Treasuries were also encouraged by optimism that yesterday's elections would leave the political landscape unchanged.

After last week's hiccup, the German authorities to European convergeoce accept a more flexible intertrades were again the order of the day. The optimism of Mr Jacques Chirac, the strict post-Emu stability Freoch president, about pact, she added. chances of meeting the Maastricht criteria by quickly broke through a points

Russian debt jumps on news of successful Yeltsin surgery Reports that President Boris Yelisin performance, rising 3.625 to around lysts yesterday remained bullish. had successfully undergone heart sur- 82.375, while benchmark dollar-denom- However, bonds issued by the z gery provided a strong boost to Rnssian debt, writes Samer Iskandar.

Vnesheconombank debt danomi. nated in D-Marks showed the strongest than their lows of last week, and ana- 2.5 points.

next year, bolstered both the technical resistance level at Spanish and Italian markets. Investors are also expect-2 points higher at 128.96. ing a report by the European In the cash market the 10-Commission, due today, to year yield spread over Ger-

take an optimistic view on many tightened by 12 basis the chances of both Italy and points, to 198. Mr Alex Cooper, manager et Tullett and Spain meeting the Meas-Tokyo, said Liffe traders tricht criteria next year. "It does seem now that were now looking for the there will be a soft interprespread to fall to 175 basis tation of their criteria," said points in the short term. Ms Sharda Persaud, Euro-On Meff the December pean economist at San Paolo

bono future gained 1.49, to Bank. Many investors expect settle at 108.75, while the 10-year yield spreed over Germany fell by 10 basis pretatioo of the Maastricht points to 168. criteria in exchange for e Sweden was egain an

exceptioo, with the yield spread over Germany widen-Oo Liffe, the BTP contract ing by 7 basis points to 134

The five-day rally has propelled Russian bonds roughly 5 points higher The UK gilts market rose 124.35, and closed oearly stroogly amid brisk trading

mated Vnesh debt rose 2 points to 78.5.

on the back of weaker than expected industrial production figures.

future closed at 109%, a risa of more than one percentage point. In the cash market, the yield spread of 10-year gilts over bunds narrowed hy 2 basis points to 182 points. Traders were eagerly awaiting today's publication of the Bank of England'a inflation report.

Further evidaoce that the economic growth is slowing helped German bunds, reviving bopes that interest rates may still have further to fall. Shorter-dated issues benefited, with yields on bench-

SWISS FRANCE

E FRENCH FRANCS

A QUILDERS

STEPLING

LW Rentenbank

LB Sc

CCDQ

try of finance, which have been plagued by legal issues, lagged behind the Vnesh debt, rising by about 1.5 to mark two-year paper falling by 11 basis points.

However, bonds issued by the minis-

France moved in line with the German market with the German yield epread over Liffe's December long gilt France unchanged at 4 basis points.

Trading in US Treasuries got off to a positive start as the dollar pierced the Y114 level against the Japanese yen and climbed against the D-Mark

Traders in New York said the strong overseas buying had led to optimism that healthy damand would be shown at the afternoon auction of \$18.25bn in three-year ootes

The yield on the benchmark 30-year Treasury fell to 6.583 per cent. its lowest

Maturity

Dec 2003

99.95R Dec 2002 0.325R

ARA PERSIAN

2.50

0.35R

level since early March, as the price jumped 15 to 102 by midday. At the short end of the maturity spectrum the two-year note rose 🛓 to 100%, yielding 5.722 per cent. The December 30-year bond By Conner Middelmann future rose # to 113%.

the budget deficit.

Investors also continued to Netia South, the private bet that US voters would Polish telecoms operator jointly owned by Sweden's return a Republican majority to both houses of Coo gress and send President Bill

Telia and Poland's RP Telekom, is set to become the Clinton back to the White latest central European bor-House, continuing the govrower to benefit from interernment's efforts to reduce national banks' hunger for Mr Richard Gilhooly, interhigh-yielding assets.

populated region south-west Poland.

Earlier this year, Netia

reised \$180m through e

10-year project finance facil-

ity, which included a \$75m

A-loan from the European

Bank for Reconstruction and

Development, an \$85m

B-loan syndicated among

banks and \$15m from the

The interest margin on

that transactioo was around

325 basis points over Libor,

whereas the margin on the

forthcoming deal is said to

be closer to 250 points,

Nordic Investment Bank.

in

The company plans to national bonds strategist at Paribas Capital Markets in establish a \$115m project finance loan facility, with New York, said he thought Chase Investment Bank and the market was getting close Bank Handlowy w Warto being overvalued. "If you do get the expected szawie mandated as arrang-

ers. The banks have agreed outcome [from the elections]. to underwrite the facility. it has largely been priced which is expected to be syninto the market and it seems dicated to a select group of that the upside is limited." he said. He added thet such banks late this year. Through Telekom Silesia, overvaluation could spell its majority owned subsidtrouble for the \$10bn auciary, Netia plans to build, tions of 10-year and 30-year bonds sat for today and tomorrow.

own and operate a telecoms network consisting of 250,000 lines in Silesia, a highly industrialised and densely

and far between, totalling only around \$300m this year.

: ·!'

pollar 9:

This is partly because liquidity in the domestic banking sector and flerce competitioo among Polish banks have made it cheaper for companies to borrow funds et home than abroad. However, observers sey this is likely to change. "The general fall in interest margins for eastern European borrowers means that Polish pricings in the international markat will coovarge towards domestic rates," says one banker.

Moreover, as the financing demand in Poland grows, "tha capacity of local banks to provide enough funding may become exhausted," he

says. But even if Polish borrowines in the international syndiceted loens merket increase, interest margins are not likely to fall as quickly as, say, in Hungary, because some banks are still wary of lending to Poland.

"There's alweys e big hangover of caution with any country that has rescheduled its debt," says Mr Lorenz Jorgensen, senior banker et the EBRD's syndications department.

Japanese banks, which have been instrumental in driving margins in other eastern European countries lower, are cautious of entering countries that have rescheduled their debt, as Japan's ministry of finance does not seem eager to encourage an etmosphere of

forgiveness, bankers say. By contrast, most German and Austrian banks do not need to make provisions against Polish assets, and many US banks have relatively loose provision requirements,

Small deals compete with World Bank for attention

INTERNATIONAL BONDS By Samer Iskandar

Primary market activity all

but ground to a halt yester-day, as e handful of small deals competed for the attention of investors with vet another lira-decominated zero-coupon issue by the World Bank.

Emerging market-hungry investors were offered a novel securitisation by Venezuele Synthetic Sovereign Investment. The deal is a repackaging of existing Republic of Venezuela bonds due 2007, originally denominated in US dollars.

WORLD BOND PRICES

Austria Belgium Canada

BENCHMARK GOVERNMENT BONDS

Coupon

6.750 5.875 7,000

Day's

change Yield

ago

7.43 6.09 8.13 6.58

800

7.74

6.04

Price

11/06 96.3140 +0.620 7.27 07/06 98,7800 +0.390 6.04 05/06 106.6100 +0.660 8.06 12/06 105.9000 +1.050 6.21

earlier this year when it bor-The new securities are in Dutch guilders and pay a rowed in Italian lire and Swiss francs, The peper generated "stroog interest" among investors in Switzerland, Germany and the Benelux

Strike Price

10000 10050 10100

0.51 0.28 0.14

0.34 0.21 0.13

adding that it expected the issue to ettract good demand from Asia overnight. The sterling sector saw e reached out to the antipodes 10-year issue of subordinated to raise NZ\$100m - the first bonds by Landasbank time it has tried to raise Schleswig Holstein, SBC money in this currency. Warburg, the lead manager, Hambros Bank, the lead said existing subordinated manager, said the borrower debt with maturities in the "wanted to tap e retail cur-2003-2006 region had become rency where it has e strong very expensive on the sec-

-410(84496-01) ING Barings 125 100.00 Vanazuela Synthetic(a,f) 9.00 Dec 2001 1.50B # ITALIAN LINE 204.17 48.185 Dec 2006 1.875 World Bank(b) 500bn 280 I NEW ZEALAND DOLLARS Walt Dianey Co 100 7.25 101,275 Nov 1999 1.50 ant government ed (over rel ant bond Elsewhere, Mexico was reported to be considering a maiden issue in Italian lire, possibly of floating-rate notes, for a total amount of around L500bn. such securities better than bonds by traditional German

102.40

99,451R

3.75

5.50

Since its return to the lire, a two-year floater

tapped three sectors; the US dollar, the yen and the D-Mark. There is one outstanding Mexican issue in by Pemer, the national oil

Station and a sub-

+30(714%-06) SBC Warburg

+28(8%%-02) Bancus Natio

Del Gottardo/Von Emet

47-17 Carl

BUND FUTURES OPTIONS (LIFFE) DM250,000 points of 100% **UK Indices FTSE** Actuaries Govt. Securities PUTS Price Indices UK Gilits Tue D Nov 5 cha Day's Mon shange 96 Nov 4 - Low coupon yield ---- Medium coupon yield --- High coupon yield ---Nov 5 Nov 4 Yr, ago Nov 5 Nov 4 Yr, ago Nov 5 Nov 4 Yr, ago Accrued xd ad Mar Jan Feb ytd 1.22 1.59 2.01 1.44 1.78 2.15 1.59 1.91 2.27 7.26 7.83 7.89 7.42 7.93 7.99 121,55 149,36 166,72 0.22 0.60 0.86 121,28 148.46 185.30 2.69 3.01 · 3,97 8.04 5 yrs 9.09 15 yrs 9.83 20 yrs 6.83 kned.† 7.21 7.85 7.94 8.00 7.31 7.93 8.00 7,38 8.00 8.06 7.37 7.92 7.98 7,39 8.05 8.09 7.31 7.85 7.92 7,48 8,11 8,15 Up to 5 years (21) 2 5-15 years (19) 3 Over 15 years (8) 4 Invideomables (8) 0.33 191.58 190.95 143.18 4,88 6.03 8.13 143.93 All stooks (54 Nov 5 Nov 4 Yr. ago INOTIONAL ITALIAN GOVT. BOND (BTP) FUTURES (UFFE)" Liza 200m 100ths of 100% Nov 5 Nov 4 Yr. ad Index-Boked 8 Up to 5 years (2) 202.49 5.28 4.17 4.21 3.22 2.55 2.58 0.12 202,24 Up to 5 yrs 3.20 0,56 3.22 3.12 3.63 · 3.63 Est. vol Open Int. Low 7 Over 5 years (10) 0.34 193.04 1.51 Over 5 yrs 3.61 cks (12) 123.52 123.16 6 Al ato 193.57 0.31 192.97 87779 99890 421 3931 8%-10%%; High: 11% and over. 7 Flet yield, yith Your to class 1: Low: 096-73696: M III ITALIAN GOVT, BOND (BTP) FUTURES OPTIONS (LIFFE) Liss200m 100ths of 100% PUTS . FT Fixed Interest Indices Gilt Edged Activity Indices Mar Dec Oct 30 Oct 29 Nov & Nov 4 Nov 1 Oct 31 Oct 30 Yr ago High" Low" Nov 4 Nov 1 Oct 31

coupoo of 9 per ceot. ING Barings, the lead manager, said the deal - the first appearance by Venezuela in the guilder sector - was "a test case" inspired by the region. Hambros said. recent success of similar securitisations in D-Marks by Morocco and Venezuela. Walt Disney Company

name recognition", as it did ondary market, which banks,

CALLS

Feb

0.56 0.40 0.27

Mar

0.71 0.53 0.39

Dec

0.39

Final terms, non-cellable unless stated. Yield apread (over re fload re-offer price; fees shown at re-offer level, a) Underlyi 12/01 at 68.05%, i) Long 1st coupon. a) Short 1st coupon favoured some switching into the new bonds. It also pointed out that "UK investors appreciate the state guarantee provided to Landesbank debt", and value

New international bond issues

100

100

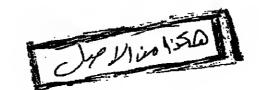
international market in 1995, by Pemer after e long absence in the company.

reflecting e sharp decline in margins in the region. wake of the peso crisis of December 1994, Mexico has But while borrowers from

other countries in the region, including Hungary, the Czech Republic, Slovenia and Slovakia, beve been active players in the syndicated loans market, Polish transactions have been few

BCI/JP Morgan Hambros Bank it bunch supplied by leed menager. DCB due Dec 2007. b) Callable on

Design D.5/5 D/70 B62/500 F0.560 B0.6 D.06 D.07 D.00 D.06 D.06 D.07 D.06 D.07 D.07 <thd.07< th=""> D.07 D.07</thd.07<>	10100 0.14 0.13 0.27 0.39 1.02 2.01 2.15 2.27 Est, vol. total. Calls 19108 Puts 17568, Provious day's open int., Calls 192785 Puts 189193	2 5-15 years (19) 149.36 0.60 148.46 3.01 . 9.09 15 yrs 7.85 7.93 8.00 7.83 7.92 8.05 7.85 7.83 8.11 3 Over 16 years (8) 198.72 0.96 195.30 3.97 9.83 20 yrs 7.94 8.00 8.06 7.89 7.98 8.09 7.92 7.99 8.15 4 Invedeemables (6) 191.58 0.33 190.95 4.58 8.83 Inved,† 8.00 6.03 8.13 5 All stocks (54) 143.83 0.52 143.18 3.16 8.92	and the state of the
DAT 6,500 10/08 104.4400 +0.690 5,90 5,99 6,10 Germany Bund 6,250 04/06 102,2300 +0.690 5,93 6,01 6,08 Ireland 8,000 06/06 107,4200 +0.670 5,93 8,91 7,05 Italy 8,500 02/08 107.4200 +0.670 5,93 8,91 7,05	NOTIONAL, ITALIAN GOVT, BOND (BTP) FUTURES (UFFC) Liza 200m 100ths of 100% Open Sett price Change High Low Est, vol Open Int.	Index-Balked Nov 5 Nov 4 Yr, ago Nov 5 Nov 4 Yr, ago 8 Up to 5 years (2) 202.49 0.12 202.24 0.56 5.28 Up to 5 yrs 3.20 3.22 3.12 2.55 2.58 2.02	
Japan No 140 8.600 06/01 123.0977 +0.680 1.37 1.56 1.74 No 182 3.000 09/05 104.1522 +0.610 2.44 2.66 2.85 Netherlands 8.500 06/06 118.0300 +0.710 5.85 5.94 5.95 Portugal 9.500 02/06 118.0300 +0.9050 7.43 7.55 7.94	Dec 123.70 125.60 +1.90 125.80 123.52 99890 87779 Mar 123.16 124.80 +1.90 125.00 123.18 421 9931 IN ITALIAN GOVT, BOND (877) FUTURES OPTIONS (LIFTE) Lia200n 100ns of 100%	7 Over 5 years (10) 193.69 0.34 193.04 1.51 4.17 Over 5 yrs 3.61 3.63 3.63 5.41 3.44 3.44 8 All stocks (12) 193.57 0.31 192.97 1.40 4.21 Average gross redemption yields are shown above. Coupon Bends: Low: 0%-7%%: Medium: 3%-10%%; High: 11% and over. 7 Flet yield, yiel Yeer to detu	•
Spain 8.800 04/06 107.5900 +1.280 7.62 7.83 7.96 Sweden 6.000 02/05 92.1000 +0.170 7.29 7.23 7.47 UK Gilts 6.000 12/00 103~01 +11/32 7.13 6.94 6.94 7.500 12/06 99-04 +24/32 7.62 7.68 7.68	Strike CALLS PUTS Price Dec Mar Dec Mar 12550 0.99 1.72 0.89 2.42	FT Fixed Interest Indices Gilt Edged Activity Indices Nov 8 Nov 4 Nov 1 Oct 31 Oct 30 Vr ago High* Low* Nov 4 Nov 1 Oct 31 Oct 30 Oct 29 Out Sees 610 92.78 92.77 92.66 92.89 92.69 92.94 05 92.01 90 Out Sees 610 92.78 92.77 92.66 92.94 05 92.01 90	
8,000 10/08 109-24 +27/32 7.74 7,68 7,80 US Treasury * 8,500 10/08 101-22 +20/32 6.27 6.43 6.62 6,750 06/26 102-05 +36/32 6.56 6.72 6.88 ECU (French Govi) 7,000 04/06 104.8300 +0.750 6.33 6.38	12800 0.73 1.50 1.13 2.70 12800 0.52 1.31 1.42 3.01 Est, vol. totel, Calls 20502 Puts 3394, Previous day's open int., Calls 199908 Puts 174276	Genz, Secs. (UK) 93.76 93.37 93.66 93.89 93.68 94.06 95.34 91.59 GMt Edged bargaines 129.1 100.9 96.3 86.3 85.3 Frond intersect 115.38 115.25 115.32 115.35 115.45 112.56 116.45 110.74 5-day average 100.0 96.8 96.0 96.5 99.0 FTSE international Local Laboratoria Compliation: 127.4 (09/07/35), low 49.16 (03/07/75), Fixed Interest high since compliation: 133.87 (21/07/84), low 50.53 (08/07/75), Basis 100: Government Securities 15/10/26 and Fixed Interest 1128. SE activity indices rebeard 1974.	
London closing, "New York mki-day Yields: Local market standard, † Gross (including withinking test at 12.5 per cent psysible by nonresidents) Prices: US, UK in 32nds, others in decimal Source: MMS Internetional	Spailin M NOTIONAL SPANISH BOND FUTURES (MEFF) Open Sett price Change High Low Est. vol. Open Int.		1
Latest Troosury Bills and Bond Yiekis Chip month Theory pair 5.74 Theory p	Dec 107.30 108.75 +1.49 109.05 107.16 123.380 76.735 Mar 108.14 109.05 107.16 400 719 UK	FT/ISMA INTERNATIONAL BOND SERVICE 20 Listed are the latest international bonds for which there is an adequate accordary merket. Latest prices at 7:10 pm on November 5 20	
Prime rate 01, Ten month	IN NOTIONAL LIK GILT FUTURIES (LIFFE)* £50,000 32nds of 100% Open Sett price Chenge High Low Est. vol Open int. Dec 108-18 109-10 +0-28 109-15 108-14 108210 143799	Image Bid Offer Chy Yield Issued Issued Bid Offer Chy Yield Issued Issued Bid Offer Chy Yield Issued	-40
BOND FUTURES AND OPTIONS	Mar 106-18 +0-28 0 2237 IN LONG GALT FUTURES OPTIONS (LIFFE) £50,000 64/ths of 100% Strike PUTS PUTS Strike PUTS PUTS PUTS PUTS	ABrin Armo Bank 74, 05 1000 102% 102% 108 1000 102% 103 1000 102% 103 1000 102% 103 1000 102% 103 1000 102% 100 102% 100 102% 100 100%<	
	109 0-57 0-59 1-18 1-34 0-37 1-27 1-50 2-02 110 0-27 0-35 0-57 1-07 1-07 2-03 2-25 2-39 111 0-10 0-19 0-38 0-50 1-54 2-51 3-06 3-18	Actista 8 ¹ / ₂ 00 400 105 ⁵ / ₈ 105 ⁵ / ₈ 4.6 SNMSS FRANC STRAGHTS Harmon 10 ⁵ / ₈ 500 103 ⁵ / ₈ 201 Harmon 10 ⁵ / ₈ 500 103 ⁵ / ₈ 201 Harmon 10 ⁵ / ₈ 500 103 ⁵ / ₈ 201 Harmon 10 ⁵ / ₈ 70 Harmon 10 ⁵ / ₈ 70 Harmon 10 ⁵ / ₈ 70 103 ⁵ / ₄ 201 Harmon 10 ⁵ / ₈ 70 103 ⁵ / ₄ 201 Harmon 10 ⁵ / ₈ 70 103 ⁵ / ₄ 701 Harmon 10 ⁵ / ₈ 70 103 ⁵ / ₄ 701 Harmon 10 ⁵ / ₈ 70 103 ⁵ / ₄ 701 Harmon 10 ⁵ / ₈ 70 103 ⁵ / ₄ 701 Harmon 10 ⁵ / ₈ 70 103 ⁵ / ₄ 701 Harmon 10 ⁵ / ₈ 70 20 103 ⁵ / ₄ 103 ⁴ / ₄ 701 Harmon 10 ⁵ / ₈ 70 20 103 ⁵ / ₄ 103 ⁴ / ₄ 701 Harmon 10 ⁵ / ₈ 70 20 103 ⁵ / ₄ 103 ⁴ / ₄ 701 Harmon 10 ⁵ / ₈ 70 20 103 ⁴ / ₄ 701 Harmon 10 ⁵ / ₈ 70 70 20 70 70 <th< td=""><td>"*.</td></th<>	" * .
France NOTIONAL FRENCK BOND FUTURES (MATH?) FFr500,000 Open Sett price Change High Low Est, vol. Open int.	Est. vol. total, Calls 6500 Puls 650. Previous day's open int., Calls 47082 Puls 28805 ECUI IN ECU COND FUTURES (MATIP) ECU100,000	Beigium 5 ¹ / ₂ 03 1000 947g 95 ¹ / ₂ 4 ¹ / ₃ 6.43 EB 3 ¹ / ₆ 99 1000 102 ¹ / ₄ 102 ¹ / ₄ 4 ¹ / ₃ 2.46 Orbario 11 ¹ / ₃ 01 2 100 112 ¹ / ₄ 112 ¹ / ₂ 4 ¹ / ₃ 7.64 British Columbia 7 ¹ / ₄ 02 500 105 ¹ / ₉ 105 ¹ / ₂ 4 ¹ / ₅ 6.41 EB 6 ¹ / ₄ 04 300 114 114 ¹ / ₄ 4 ¹ / ₄ 4.60 Powergan 8 ¹ / ₅ 03 2 250 103 ¹ / ₃ 104 ¹ / ₉ 4 ¹ / ₈ 8.05 British Gas 0 21 1500 15 ¹ / ₅ 16 ¹ / ₄ 4 ¹ / ₉ 7.64 Finland 7 ¹ / ₄ 89 300 111 ¹ / ₂ 112 4 ¹ / ₄ 8.05 Sovern Trent 11 ¹ / ₂ 69 2 150 105 ¹ / ₉ 10 ² / ₉ 4 ¹ / ₉ 7.38	
Dec 126.40 126.96 +0.62 127.04 126.36 164,356 188,444 Mar 126.36 126.92 +0.62 126.98 125.36 10,517 37,524 Jun 125.14 125.68 +0.60 125.74 125.14 99 6,969	Open Sett price Change High Low Est. vol. Open int. Dec: \$3,78 \$4,26 +0.45 \$4,40 \$3,78 1,565 \$2,22 Mar - \$3,82 - - - 25	China 6/2 04 1000 994, 574, 4, 7.20 Ontano 64, 03 400 1124, 1123, -4 3.88 World Baset 6 28 M25 70 1034 104 44, 733 Credit Forder 9/2 99 300 107 1574, 6.12 Quebec Hydro 5 08 100 1023, 1034 46 Credit Local 6 01 FFr 8000 1003, 1049 44 5.11	C 34 763
III LONG TERM FRENCH BONO OPTIONS (MATIF) Strike CALLS CALLS Price Puts Dec Mar Price Nov Dec Mar Nov Dec Mar 124 0.03 0.12 0.41	US TREASURY BONO FUTURES (CBT) \$100,000 32nds of 100%	East Japan Ratikay 6 ² g 04 800 98 ¹ / ₂ 99 ² / ₈ 4 ⁴ / ₈ 6.70 Sweden 4 ¹ / ₈ 03 500 105 ¹ / ₈ 105 ⁵ / ₈ ¹ / ₉ 3.87 Elec de Rance 8 ³ / ₈ 22 FFr 3000 122 ² / ₈ 123 ¹ / ₄ 4 ⁴ / ₈ 6.83 Ells 6 ⁴ / ₂ 800 88 ¹ / ₈ 98 ¹ / ₂ 4 ⁴ / ₈ 6.32 World Bark 7 01 700 22 ¹ / ₂ 27 ² / ₈ - ³ / ₈ 5.29 Ell 9 ¹ / ₄ 97 1000 103 ⁴ / ₈ 104 5.40 World Bark 7 01	
125 2.00 - 0.07 0.24 0.62 126 1.15 1.36 1.79 0.21 0.46 0.93 127 0.51 0.80 1.22 0.56 0.86 - 128 0.15 0.37 0.80 - - -	Open Latest Change High Low Est. vol. Open Int. Dec 112-30 113-16 +0-16 113-22 112-30 150,039 394,148 Mar 112-16 113-06 113-06 112-16 1,547 30,418 Jun 112-13 112-17 +0-16 112-21 112-13 1,017 5,589	Export Dev Corp 9/2 98 150 105/2 105/4 5.94 Belgium 5 88 75000 111/2 11176 4/2 1.18 Abbey Noti Treasury -1/2 89 1000 98.95 100.02 5.2508 Export Dev Corp 9/2 98 1800 80/4 80/5 4 86/6 Ronder 4/4 02 75000 113/2 113/4 4/2 223 Bentementer 1/2 99 750 99.97 100.06 5.7500 Fed Nome Loan 7/9 89 1800 102/3 103 4/2 6.04 88 6/9 00 100000 117/2 117/3 4/2 1.24 Communica 1/2 98 2000 99.97 100.06 5.7500 Fed Nome Loan 7/9 89 2000 102/3 103 4/2 6.04 88 6/9 00 100000 117/2 117/3 4/2 1.24 Communica 1/2 98 2000 99.97 100.06 5.7500	
Est. vol. total, Callo 21.053 Puta 9,445 - Provious day's open inc., Callo 160,009 Puta 154,828 Generalizzany	Japan III NOTICHAL LONG TERM JAPANESE GOVT. BOND FUTURES (LIFFE) Y100m 100ths of 100%	Finland 64, 87	
In NOTIONAL GERMAN BUND FUTURES (LIFFE)* DM250,000 100ths of 100% Open Sett price Change High Low Est. vol Open int. Dec 99.55 100.12 +0.66 100.26 99.48 197958 249447 Mar 99.59 99.12 +0.67 99.13 96.59 1682 17852	Open Close Change High Low Est. vol Open Int. Dec 126.40 126.24 2918 n/a Mar 125.50 125.39 272 n/a	NU Finance 54: 89	
UK GILTS PRICES	* LIFFE futures altro traded on APT. All Open interest figs, are for previous day.	bary 6% 23 5600 95 95% 4% 7.43 World Benk 6% 02 250000 117% 117% 4 1.78 1.79 1.89 9.86 500 100.23 100.21 100.21 100.23 100.21 100.21 100.23 100.21 100.23 100.21 100.23 100.21 100.23 100.23 100.21 100.23 100.23 100.23 100.21 100.23	5
Sharte" (June up to Five Yanga) Tugs 71an: 200622	nic)	Charle 7% 03	
Conversion 10pc 1998 9.99 6.74 1004 103 1004 Treas 74pc 2006 7.70 Treas 134pc 1997 4 13.06 6.01 1013 1074 1002 1ncs 8pc 2002 644 7.87 Exch 1012pc 1997 10.28 6 10 101 3 1073 1002 Treas 114pc 2003 7 9.72 Treas Dr 76 1073 1002 Treas 114pc 2003 7 9.72	765 1004] +4, 1034, 964, 44, 2947,	SNO 10 92 200 107% 643 Bittle Counting 7% 002 1250 11111 11472 1142 <t< td=""><td></td></t<>	
Exch 150c 1907 13.80 6.38 106.4 11513 10271 Trees 50c 2008 ## 0.20 Exch 194.0c 1926 941 6.52 10315 1055 10035 Trees 50c 2009 789 Trees 74.0c 1998## 1.9 6.60 10074 4.4 10943 10074 Trees 50c 2009 789 Trees 151c 1987# 13.40 6.74 11513 4.41 12032 11513 Trees 0 1/40c 2010## 7.24	7.76 1074 +12 10412 9545 242611	Tennesses Valley 6 00 1000 99-2 99-4 6.24 KW ht Fin 10 01 C5 400 117 1174 +2 5.47 United Kingdom -1 01 2000 99.75 99.78 5.3750 Tennesses Valley 6 5 05 2000 114 k 1145 +3 4.95 Tokyo Biec Power 6 3 03 1000 98-3 99 6.35 Ontatio S 03 C5 200 114 k 1145 +3 5.99 CONVERTIBLE BONDS Tokyo Biec Power 6 3 03 1000 98-3 99 6.35 Ontatio S 03 C5 200 114 k 114 k 45 5.99 CONVERTIBLE BONDS CONVERTIBLE BONDS Converting	***** * :
Treas 9 ³ 2pc 1998;;;	44apt 3000	United Kingdom 74 02 3000 1051 //2 44 6.18 Oater Kontrollitant 101 //2 150 1135 //2 1141 //2 45 4.78 Associal Price Bit Ollier Prent. Watt Bank 69 05 1300 1001 //2 1000 //2 1000 //2 1000 //2 1000 //2 102 //2 45 6.38 Allect-Lyone 64: 08 £ 200 6.04 //2 90% 453.22 World Bank 6% 05 1500 1007 //2 1073 //2 1000 //2 1100 //2 112 //2 112 //2 4.54 Gold Ketgoonie 7/2 00 6.04 //2 90% 453.22 World Bank 6% 06 500 1007 //2 1007 //2 1100 //2 1112 //2 112 //2 4.54 Gold Ketgoonie 7/2 00 60 //2 6.04 //2 90% 453.22 World Bank 6% 06 500 //2 500 //2 1000 //2 1100 //2 112 //2 142 //2 4.55 Gold Ketgoonie 7/2 00 //2 60 //2 117 //2 116 //2 1100 //2 1100 //2 1112 //2 110 //2 1112 //2 110 //2 1100 //2 1100 //2 1100 //2 1100	
Trans 130c 2000	andening §e 3 months prior to taken) and have been adjusted to reflect relaxing of RPI to 100 in February 1987. Convention 7.63 5012 -4, 112,1 10431 station 3.845, RPI for February 1995: 150.9 and for September 7.63 5012 -4, 824, 75% 1995: 153.8, 7.68 101 -41 (1324) 8.2	Destructive MARK STRAIGHTS Destruct Processing Destruction Horse Horse Horse Austra 2.38 01 420 17.949 67% <td></td>	
Inclus Bigs 2000±± 7.15 7.15 7.12 103-2 +13 112-10 These 74pc 2012-154‡ 7.57 1 Inclus File Rate 2001	7.88 9614 +12 10713 9313 767 1012 +13 1013 9513 Other Fixed Interest 752 10833 +33 1115 1025	Denmark 6 ¹ / ₉ 99 2000 103 ¹ / ₉ 103 ² / ₉ 3,95 taby 10 ² / ₈ 00 Ecu 1000 117 ¹ / ₉ 117 ¹ / ₂ 4 ¹ / ₈ 5.16 Millsui Bank 2 ⁵ / ₉ 03 2000 22 110 ¹ / ₈ 110 ¹ / ₈ +3.75 Depis Prenze 6 ¹ / ₉ 03 1500 102 ² / ₉ 103 4 ¹ / ₉ 5.85 United Kingdom 9 ¹ / ₉ 01 Ecu 2750 114 ¹ / ₈ 114 ¹ / ₈ 4 ¹ / ₄ 5.35 Octaine 8 02 200 2332.5 81 ² / ₉ 85 ² / ₉ 451.73 Desite Br. Fin 7 ¹ / ₂ 03 2000 108 ³ / ₈ 108 ³ / ₈ 4 ³ / ₉ 5.86 AIC 10 98 AS 100 107 ¹ / ₄ 187 ¹ / ₈ 6.86 Permit 8 02 65 39.077 82 ³ / ₈ 85 ³ / ₈ 451.73	
Rue to Allines Yourt	7.57 10112 +52 1033, 9531Notes Int Ned Price 2 + or - High Low Assas Dev 104.pc 2009 8.59 7.94 116 120 11133 BTeam 1112pc 2012 9.06 8.451254.zmt 120 11942	EB 64,00 1500 1054 1054 4, 459 EB 74,99 A5 350 1001 101 1172 700 Sandoz Capital 2 02 750 1302.25 1104, 111 47.71 Finland 75 00 3000 1057 108 +k 4.48 NSW Tessaury Zero 0 20 A5 1000 15% 17 +k 7.81 Sandoz Mi Finance 7/2 02 250 76 92% 93% 2 taby 74 98 5000 1043 1043 1045 3.63 R & I Bank 74,03 A5 125 102 1023 4.5 7.81 Sandoz 0 10 40000 1059.4 102% 103% 47.78	
Iness Type: 2001 1.01 7.23 99ad +% 107.3 9642 Trans 84.pp: 2002 8.79 7.40 11641 +13 114% 10878 Trans 84.pp: 2002	letand Cap 0 Japa * 10 8.04 - 105%, 105%, 105%, 105% 9pc Cap 19988.65 - 104 104 104 13pc %7-2 11.72 - 1107, 1107, 1107, 11.72 - 1107, 1107, 1107, 10.11 - 133-2 105, 1107, 1107, - 46½ - 1, 503, 461, Uwendo Japa Eved 8.97 - 39 41 33	Norway S ¹ g 63 1500 103 ¹ / ₂ 103 ¹ / ₃ + ¹ / ₃ 3.67 Sth Aust Goxt Fin 8 02 AS 150 107 ⁵ / ₈ 105 4 ¹ / ₉ 7.35 Sun Aliance 7 ⁴ / ₈ 06 2 155 3.9 112 ¹ / ₈ 113 ¹ / ₈ +19.25 Ontaria 6 ¹ / ₉ 04 1500 101 ¹ / ₈ 101 ² / ₉ + ³ / ₈ 5.98 Univer Australia 12 98 AS 150 107 ¹ / ₈ + ¹ / ₈ 6.62 No Intermetion coatable - providue day's price Spein 7 ¹ / ₈ 03 4000 108 ¹ / ₈ 108 ¹ / ₈ + ¹ / ₈ 5.96 Westiam Aust Trees 7 ³ / ₈ 98 AS 100 101 ¹ / ₈ 101 ¹ / ₉ 8.70 ± Only contraction coatable - providue day's price	
Funding 3/2007 1999-4 4.22 6.37 623(4.3 843) 784 War Loan 3/2021; 7.98 Conversion 9/207 2064	- 433 - 454 454 412 LCC 3pc 20 An 9.09 - 33mt 96 23 - - 90.2 + 3 624 504 122 LCC 3pc 20 An 9.09 - 33mt 96 23 - - 90.2 + 3 624 504 504 504 507 - - 3671 - 2 354 344 504 507 - - 387 710 79 69 770 - - 387 710 79 69 770 - - 310 - - 144 1 - - 130 - 	STRANSHT SONDS: The yield is the yield to redemption of the bid-price; the amount issued is in milicinty of cumancy units. Chy. day-Change on day. FLOATING, RATE NOTES: Denominated in delate unless otherwise indicated. Coupon shown is minimum. Spead-Margin above six-month offered rels (pinne-month Sabove mean rate) for US delate. premium of the current effective price of acculance shownes indicated. Coupon shown is minimum of bong per share expressed in Currency of share at convenien rate bond over the most recent, once of the states.	
Trags 17 jpc 2003-6 9.44 749 127 j 42 131 j 1232 United at 2015 11 12 12 in the second state of the second state in the second state in the second state in the second state in the second state is a second state in the second s	- 31,5 32,7 135 13672 120	C The Financial Times Ltd., 1996. Reproduction in whole of in part in any faxe not permitted without written tonsark. Data supplied by international Socurties Market Association.	



CURRENCIES AND MONEY

I OTHER C

.

Dollar gains in final trading before US election

MARKETS REPORT

By Simon Kuper

sh telecon

11.1

 \sim

·.~

10

.

÷.,

The dollar gained ahead of last night's US elections on tations that yield curves will the belief that the Republicans would keep control of The Swiss franc hit a fresh Congress while President 20-month low against the and thus a stronger dollar. Swiss franc is considered a The dollar also benefited from yesterday's rise in US

weak German economic fig-ures, with orders data com-ing in lower than expected. appreciating krone. This suggested that the German recovery was weaker than expected, and a Bundesbank rate hike a more distant prospect than many currency analysts had For assumed.

The German currency was £spot Jacob Jacob Jyr later hit by reports that a large number of countries could qualify for the first

POUND SPOT FORWA

round of European monetary firmer against the yen at union. This revived "conver- Y114. The yen was gence trades", in which traders sell the D-Mark and buy D-Mark at Y75.20. According to newspaper converge.

reports yesterday, the European Commission will today Clinton would win re-elec- D-Mark on news that Mr 15 Emopean Union member tion. Currency strategists Boris Yeltsin, the Russian states are on track to meet said this suggested a contin-ued tight US fiscal policy ful open heart surgery. The set out in the Maastricht treaty. The progress was safe haven currency that . thanks to strong European rises during international from yesterday's rise in US rises during international economic. growth, the stocks and bonds. The D-Mark suffered on a Norway unexpectedly cut Greece would fail to meet second successive day of its deposit and overnight the criterion. With the weak German economic fig. lending rates by 50 basis French President Jacques ures, with orders data form-

Chirac saying yesterday that Spain was sure to qualify for The dollar closed in Lonthe first round of Emn. belief don three tenths of a pfenrevived in the markets that

nigs stronger, against the D-Mark at DM1.516 and Y0.2 rency would have many members. nd in New York

---Labert---1.6465 1.6454 1.6432 1.6907 --- Prov. close Nov 5 1.8455 1.8444 1.8422 1.6297

Swedieb krone unchanged against the Against the D-Mark (SKr per DM) 42

3 22 4.4 Γn. . **کې** ا 1996-1 192. S. J. Bank of Italy. The strategist said the central bank wants

to stop the lira from appreciating too much before its expected entry into the European exchange rate the single European curmechanism later this month. Italy is seeking an entry rate Nov 5 The peseta and lina rose above L1,000 to the D-Mark,

marginally against the D-Mark. But one currency while France wants a stronger lina. strategist said the rise would have been more pronounced The same strategist

but for lira selling by the pointed out that Spanish

bond yields were now lower fractionally weakened the than UK yields, which were krone, which closed in Lonalmost on a par with Italian yields. He said the favourable yields helped sterling to withstand weaker than expected UK industrial pro-

rate cut was meant "to reduce the krone's appreciaduction and manufacturing tion". The currency has output figures yesterday. The pound rose another two risen on the back of high oil fifths of a pfennig against prices and strong economic the D-Mark to close at growth, and the bank said it DM2.496, after hitting resis-tance at DM2.50. had been forced to sell the krone to weaken it.

Mr Jeremy Hawkins, chief ■ Norges Bank, the Norweeconomist at the Bank of gian central bank, surprised the markets with a 50 basis America in London, pointed to the change in government point interest rate cut when most analysts had expected in Norway e fortnight ago, when Mr Thorbjorn Jagland the bank to raise rates. The succeeded his fellow Labour fall in the deposit rate to 4 party member Mrs Gro Harper cent and the overnight lending rate to 6 per cent lem Brundtland as prime minister. "A cynical view would be that the new government applied pressure on the bank to trim rates," Mr
 Nov 5
 £
 \$

 Czuch Pp 44.3279
 26.9390
 26.9590

 Bungary
 255.976
 255.930
 155.650

 Bungary
 255.976
 255.90
 155.650

 Bungary
 255.976
 255.90
 3000.00

 Bungary
 255.976
 255.90
 3000.00

 Samait
 0.4816
 0.4825
 9.2996
 0.2994

 Potent
 4.6200
 4.6252
 2.8090
 2.8095

 Runsia
 6966.15
 9006.26
 5490.00
 5471.00

 UALE
 6.0421
 3.6710
 3.6740

Hawkins said. For the latest market

update, ring FT Cityline on +44 990 209909

To subscribe, call +44 171 873 4378

3345335355773222155 33333355577221135----9333334 maa 4424 maa 33333333335557722711555 333332255777221 France week ago don at Nkr4.203 to the D-Mark. Mr Kjeli Storvik, Norges week ago trainnd week ago Bank's governor, said the Italy week ago Netherlands week ago wheik ago 14 54 54 54 US 58 517 week ago Aspan week ago I S LEOR FT LO week ago 5% 5% 514 55 5<u>8</u> 5% 5월 _ US Dollar CDs week ago ECt/ Linked Ds week ago SDR Linked Ds 5.08 5.10 44 43 31 32 5.13 5.16 4<u>4</u> 3<u>1</u> 3<u>4</u> 5.11 5.11 4% 4% 3% 3% 5.27 5.34 44 44 315 3具 LIBOR IN are of Money Rases, USS CDs, ECU & SDR Linked De Mid rates EURO CURRENCY INTEREST RATES Short 7 days notice One Three Nev 5 Belgian Franc Danish Krone D-Mark Dutch Guilder Franch Franc Portuguese Esc. Spanish Poseta Starling Seelas Franc Care, Dolar 312 · 3 328 · 312 312 · 312 313 · 212 313 · 212 313 · 315 613 · 613 613 · 613 613 · 613 613 · 613 614 · 614 176 · 114 318 · 3 3¹8 - 231 311 - 314 3¹8 - 2³8 3¹8 - 2³8 2⁵8 - 2¹2 3²8 - 2¹2 3²8 - 2¹2 3²8 - 2¹2 6¹1 - 6¹1 6¹4 - 6¹8 1³6 - 1³4 3¹8 - 3¹4 3¹8 - 3¹4 3¹8 - 3¹4 34 - 234 35 - 342 35 - 342 212 - 213 34 - 354 913 - 615 617 - 615 617 - 614 17 - 14 3,4 - 3

WORLD INTEREST RATES

Over night

One month

Three mthe

mth

MONEY RATES

mber 5

Belgium week ago

Nov 8 Closing Change Description Description Parts StePA Press StePA StePA S		Swelaw France 17: 11: 17: 11: 17: 11: 17: 11: 21: 21: 21: 21: 21: 21: 21: 21: 21
CROSS FATES AND DERIVATIVES EXCLAMINGE CROSS FATES No. 6 BF DK BF DK BF C C F V Exclamation Destingent Finance (BF) 100 16.41 11.39 4.660 3.443 4203 3.113 4.207 3.169 447.7 2.250 1.76 5.77 1.577 1.567 1.577 1.567 1.577 </td <td> quantitative analysis, forecasts and inside information on new product introductions and joint venture agreements. Pharmaceutical Business News also contains round-ups of essential interim and year-end company financial performance and results, plus news on acquisitions and mergers, and regular comment and views from the world's stockmarkets. Who should read Pharmaceutical Business News? </td> <td><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></td>	 quantitative analysis, forecasts and inside information on new product introductions and joint venture agreements. Pharmaceutical Business News also contains round-ups of essential interim and year-end company financial performance and results, plus news on acquisitions and mergers, and regular comment and views from the world's stockmarkets. Who should read Pharmaceutical Business News? 	<text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text>
Open Sett prior Change Sett prior Change Sett prior Change Price Nov Dec Jan Nov Dec Jan Diff Diff< Diff< Diff< Diff< Diff< Diff< Diff< Diff< Diff<	Management Marketing Research & Development Sales	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>

25

Repo rete

4.75 4.75 3.00 3.00 6.25 6.25 8.38 8.38 8.38 3.30 3.30

One year

(Dia. rate

2.50 2.50

2

2.50 2.50 7.50 7.50 3.00 1.00 1.00 5.00

5.00 0.50 0,50

Lomb_i Inter.

9.00

One

للساد والهولي

COMMODITIES AND AGRICULTURE

Surge in US demand buoys market for LPG

CBOT for

By Deborah Hargreaves

26

Prices for liquefied petroleum gas have risen strongly over the past two months as demand in the US has surged. The booming market has hit US petrochemicals producers hard, along with other companies which use propane and butane as raw materials.

LPG contract prices from Saudi Arabia - the main supplier - were recently fixed et \$250 a tonne for both propane and butane, an Gisd believes the market will

increase of almost \$50 a tonne from the October price and higher than most analysts' expectations. "The market has been strong all year - we thought it would peak early and fall off, but the latest Saudi contract prices make us think there won't be a peak until January," said Mr Ron Gisd, asso-

ciate at Purvin & Gertz, the Houston-based oil analysts. Spot prices in the US are currently at 52 cents a gallon, and Mr

average 60 cents a gallon in Janu-ary. "That's just an average there are likely to be higher price spikes in coid weather," he said. The LPG market has been bol-

stered by the recent strength of prices for crude oil and refined products such as heating oil and jet fuel. Strong naphtha prices have encouraged some ethylene producers to use LPG as a feed stock to save costs on naphtha, but this has led to an escalating upwards spiral in prices.

British Petroleum said vesterday that the higher cost of naphthe had dampened the rise in profits at its chemicals unit for the third quarter.

Argus LPG World, the trade publication for the liquefied petroleum gas industry, noted that prices for butane are at their highest levels for 18 months and that the propane market is stronger than in February, which is the time of peak demand for the product as a heating fuel.

Commodity prices ... anything but stable

US propane and butane stocks are at their lowest levels since the Gulf war at 51m barrels, down from 56.5m barrels in October 1995. Supplies on tha US Gulf

coast are particularly tight and these are usually drawn on later in the winter to replenish the main consuming centres in the north-east of the US.

the globe as consumers chase World supplies have become tighter since an explosion in July tight supplies. closed a large Penex gas plant in BP results, see Mexico which produced one-third UK Company News BP results, see

of fresh interest of the country's needs. Since then, Mexico has been forced to become a net importer of LPG, rather in gold than a net exporter. Propane and butane are used

for cooking and heating in Asia. By Kenneth Gooding, The US uses 300,000 harrels a day Mining Correspondent of propane in ethylene production as well as for agricultural uses.

There are signs that investors are taking a fresh look at gold in the final quarter of this year because of worries about a possible sharp technical fall in share prices, according to CPM, the New York based precious metals consultancy. However, it suggests that

Signs seen

. . 1

12 × 5 × 5 × 5

efshore NO OVERSEAS

the gold price is unlikely to react until investors "return ditionally used commodity forcefully, possibly toward futures and derivative prodthe middle of 1997". ucts to fix a price for sales of

In its latest survey, CPM recalls that a surge in inves-Another factor likely to tor interest pushed gold to encourage consumers and nearly \$420 a troy ounce in producers to turn increas-January and February this year but in March investingly towards hedging is a ment demand for physical metal faded and the price fell back below \$400. Gold closed in London yesterday at \$379.45.

Investors will add abont 2.2m ounces to their net holdings this year, CPM suggests, 47 per cent more than in 1995. Net investment demand could reach 3.9m ounces next year.

Net sales of gold by cen-tral banks - another key factor in the market - are projected to reach 10m ounces in both 1996 and 1997. Some 2m ounces of next year's total could be provided by the International Monetary Fund, which is expected to sell 5m

ounces in all. "These sales are not expected to disrupt the gold market," CPM insists. It snggests 39m onnces of newly refined gold will reach the market this year, 4.2 per cent more than in 1995. This supply is forecast to increase next year by another 2.2 per cent to 91m ounces.

Gold Survey 1996. CPM Group, 37th floor, 30 Broad Street, New York, NY 10004 Hargreaves 555

2.00

. . .

0.55

69.5

U 5000.00

0.2

177

يدويد ورزار

Price rises put spotlight on hedging

Crude oil edges higher

MARKETS REPORT By Robert Corzine

and Kenneth Gooding

Crude oil prices edged upwards yesterday after six days of steady losses shaved about \$2.50 a barrel off the price of the benchmark Brent Blend for December delivery. It was quoted at \$32.35 a harrel in late Loodon trading, seven cents up on Monday's close.

British Petroleum vesterday said it expected oil prices to remain relatively firm in the fourth quarter. But the recent oil price rally bas dooe little to change BP's longer-term view. It still expects average prices to remain in the \$16-\$18 concentrate. range over the long term, said company executives.

Prices of refined products such as gas oil and jet fuel weakened yesterday, as traders waited for the latest inventory statistics from the American Petroleum Institute. November gas oil futures on London's international Petroleum Exchange closed 50 cents down st \$208.50 a tonne.

On the London Metal Exchange tin retested the Coppe Leed Nickel 17-month low of \$5,890 a tonne it reached on Monday. Zine Tin A "bear" raid has driven the

price down from a 1996 high of \$6,650.

though this is the second

disruption Noranda has suf-

fered in recent months. It

lost an estimated 40,000

tounes of zinc metal when

its Brunswick mine was

affected by seismic activity.

-3,425 to 968,000 -100 to 77,260 -2,525 to 121,175

to 116,275 to 43,134

to \$41,025 to \$,820

-400

-850

+720

LAS WAREHOUSE STOCKS

(As at Thursday's close)

May, a sliding copper market three months later, and now Mr Ted Arnold, an analyst at Merrill Lynch, said it was fuel prices standing close to too early to expect a strong a five-year high have forced price recovery on the back of many commodities users to consumer demand. Supplies re-write financial plans. of tin "come out of the wood-

While companies stress work" at the right price, he that raw materials make up suggested - and the right a small part of their cost price seemed to bave moved base, they usually respond down from \$6,800 to \$6,400. to rising commodity prices Noranda of Canada has by lifting product prices.

ndustrial companies which had taken stable

granted have had to think

again this year.

raw materials prices for

Soaring wheat prices in

closed its Heath Steele zinc Most airlines, for example, and lead mine in New were caught unawares by the recent rise in jet-fuel prices after five years of sta-Brunswick after an evolosion killed one miner and bility. Britisb Airways recently increased its Euroinjured another on Monday. Production is not expected to be interrupted for long at pean fares 2.5 per cent partly the mine, which produces as a result of soaring fuel costs, while Japan Airlines 100,000 tonnes a year of zinc concentrate and a little lead last week blamed higher fuel prices for a 61 per cent fall in Zinc prices brushed aside first-half profits. the potential impact, even

Food companies such as Nestlé, as well as breadmakers and biscuit-makers. were hit hard by sharo increases in grain prices earlier this year and a surge in the coffee market two years

However, companies do not have to see their bottom lines savaged by a jump in fuel or flour bills. On most large commodities, brokers offer simple bedges which act like insurance contracts, guaranteeing payment of a certain price on a set date.

Most corporate consumers hedge against rising costs, but many had become complacent in recent years about stable and falling commodities prices. "I have been quite sur-

prised at the way the indus-try has tended to disregard fuel as an important part of its cost base," says Mr William Gaillard, at the International Air Transport Association in Geneva. British Airways save it has

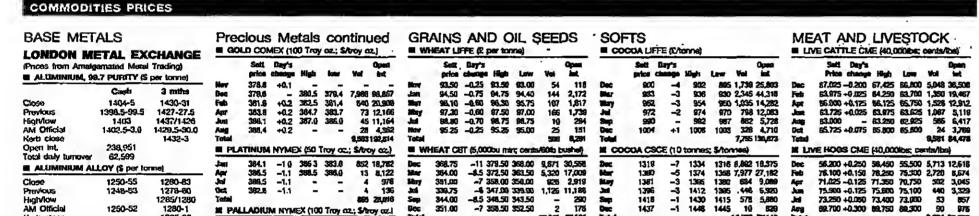
a bedging policy, but declines to give details. US carriers have traditionally period.

been more reluctant to bedge costs, because of a Horn, executive director of conservative approach to derivatives markets.

explains that an airline could buy into a fixed-forost fuel contracts floating-rata oil swap now for users such es 1 V 1 airlines, freight which would guarantee its companies, bus operators prices for buying jet fuel next summer. The airline and industrial consumers would continue to buy from like British Steel are priced on a monthly basis at a preits traditional suppliers, but mium or a discount to the the broker would take on the average quoted energy cost. risk of the floating-rate price payment, leaving the airline to pay a fixed price. Brokers offer a range of contracts allowing users to lock in to s price for a longer

the Course states

Mining companies and some oil producers have tra-



Jet Fuel Rotterdem (5 per tonne) LIME GENE 1005

For example. Mr Lindsay "Risk management, similar to an insurance contract, energy derivatives at Lebwill become an increasingly man Brothers in London, important instrument for the industry," he said in a speech in Bogota. Cynics say that those com-

panies that do hedge can gain from a period of commodity price volatility by raising their own prices - so increasing their margins whila competitors struggle to cover higher costs.

JOTTER PAD

Deborah

move towards just-in-time delivery. This has seen companies carrying much lower stocks of raw materials as a buffer against volatile prices. The oil industry's decision to carry lower stocks has been one reason for the recent rise in oil prices.

future production.

Demand remains strong across

Mr Celsius Lodder, head of the International Coffee Organisation, the producers and consumers body, predicted last week that moves towards just-in-time roasting and savsge cuts in coffee inventories would force exporters, traders and processors to resort to sophisticated financial mechanisms to offset price volatility.

AM Official 1250-52 1280-1 Kerb close 1285-90	# PALLADIUM NYMEX (100 Troy 02.; Shroy 02.)	Vec 351.00 ~7 358.50 352.50 2 178 Tetal 17,046 62,194		Arg 69.700 +0.300 69.750 89.300 90 975 Tatal 8.524 30.058	L			
Open int. 6,255	Dec 117.85 +0.35 119.90 117.25 378 7,179 New 118.95 -0.35 120.50 119.50 294 813	MALZE CET (5,000 bu min; censu/Seb bushel)	COCOA (ICCO) (SDR's/tonne)	PORK BELLES CME (40,000ks; cents/bs)				
Total daily turnover 1,112 · UEAD (\$ per tonne)	Jun 11995 +0.36 25 156		Hav 4 Price Prev. day					
Close 740.5-1.5 743-4	Total 697 8,148 SILVER COMEX (5,000 Tray cz.; Cents/bray cz.)	May 209.75 -4.5 273.50 268.00 5,991 42.643	Deby 998.62 f010.13	New 05.500 +0.250 68.600 58.500 141 515 New 70.975 -0.125 71.150 70.600 120 383	CROSSWO	RD	dan series and	
tovicus 736-37 740-41 bgh/law 741.5/741 745/738	Nov 477.7 -1.5 4790 478.0 11 11	Jul 273.75 -5.25 277.50 278.25 6,255 34,458 Sep 270.50 -3.5 274.00 269.50 589 3,908	COFFEE LIFFE (Sctorme)	Jef 71.200 +0.150 70.700 89.900 49 231 Jug 59.550 - 70.000 59.700 1 47			1.44	
M Official 741-1.5 742-3	Oec 479.3 -1.5 483.0 479.0 3.239 62.384 Jan 481.3 -1.5 28	Dec 209.50 -4 273.25 268.75 3.344 28.251 Total 74.500 342,154	New 1501 -8 1520 1464 362 3,942 Jun 1401 +12 1402 1383 1,856 18,035	Total 1,844 8,118	No.9,218 Set by CIN	EPHILE		
Opon int. 39,758	Mar 485.9 -1.8 490.0 484.5 609 14,937	BARLEY LIFFE (C per torme)	Mar 1346 +7 1348 1327 544 8,544		1 2 3 4 5	6 7 8		5 - 17M
otal daily rumover 9,611	Mary 480.2 - 1.6 483.5 489.5 35 6,626 Jul 494.8 - 1.8 499.0 483.5 14 5,269	Nov 91.50 +0.50 91.50 90.50 - 306	Ney 1325 +6 1333 1311 337 3,908 Jul 1328 +6 1322 1316 29 528	LONDON TRADED OPTIONS			111 A.F.	
NICKEL (\$ per tonne) 20se 7035-45 7150-55	Total 3,683 96,465	Jan 92.25 -0.50 92.25 92.25 - 739 War 93.50 -0.76 93.50 93.50 13 196	Sep 1325 +6 133 Total 3,228 33,122	Strike price \$ tonne - Calls Puts	10	╋╌┲┻╬╼╌┇┻╄╼╌╢		
Previous 7035-45 7145-50		May 94.75 -0.70 94.75 94.75 15 110	COFFEE C' CSCE (37,500kbs; centa/ba)	I ALUMINIUM			0.3-	يد مينه ها
Lugh/low 7185/7120 AM Official 7040-45 7150-55		Sep 91.00 1 Total 42, 1,377	Duc 118.85 +1.10 119.00 116.80 2,443 10,353	(99.7%) LME Dec Mar Dec Mar 1375	44			
Verbickose . 7150-55 Doon mt 47,195		SOYABEANS CET (5.000bs min; centretion boning)	Mar 107.99 +0.85 108.00 108.40 1.821 10.985 May 104.69 +0.80 105.00 103.50 313 3.635	1400 45 80 28 45 1425 33 75 40 57				
otal daily turnover 12,004	ENERGY	Mary 670.00 +4 672.50 885.50 8.925 9.894 Jan 672.75 +2 678.00 668.50 35.464 73.690	Jul 103.00 -0.05 103.85 103.00 36 1,067 Sep 102.25 -0.25 103.00 102.50 13 633	COPPER		the second se		·· ·
TIN (\$ per tonnet	CRUDE OIL NYMEX (1,000 barrels, S/barrel)	Mar 677 50 +1.25 682.00 675.00 5,428 33,591	Dec 102.00 - 102.25 102.00 8 409	(Grade A) LME Dec Mer Dec Mar 1950	14 16 38	117 1 1	41e -1	
1050 5830-40 5900-05 Texebus 5835-45 5910-15	price change High Low Voi fat	May 680.50 - 685.00 678.00 1,484 16,783 Jul 682.75 - 687.50 681.00 2,223 14,983	Total 4,534 27,997	2000 58 55 68 145	18			
igh?ow 5830 5920/3880 M Official 5830-35 5895-900	Dec 22.81 -0.02 23.08 22.65 34.962 85.874 Jan 22.56 +0.02 22.79 22.42 15.816 55.683	Ang 678.50 -1.5 684.00 679.00 138 1,891 Tutal 54,624 180,264	Nor 4 Pres. day	2050 40 70 98 177	19 20 22 1	⋠⋰⋛⋑⋠⋰⋛⋑⋑ ⋻⋳⋻⋚	6	
erb close 5900-05	Feb 22.26 +0.03 22.45 22.13 6,031 36.520	SOYABEAN OIL CET (50,000%bs: centa/2)	Comp. daily 97.98 97.98 97.98 97.98 97.98 97.98	1400				
open int. 15,439 otol daily turnover 4,505	Mar 21 92 +0.01 22.79 21.85 2.244 23,789 Apr 21.63 -0.04 21.76 21.48 850 16,069	Dec 22.82 +0.08 22.94 22.70 7.101 45.567		1450 31 35 80 138 1500 21 25 120 179		22		
ZINC, special high grade (5 per torne)	Nay 21.26 - 21.37 21.26 2.308 11.932 Total 72.764 382,790	Jan 23.06 +0.06 23.18 22.96 2.196 20.864 Mar 23.45 +0.06 23.55 23.35 2.461 18.657	WHITE SUGAR LIFFE (S/tonne)	COCCALIFFE Dec Mar Dec Mar	23 29	29		• •
lose 1038-0 1062.5-3.0 revious 1043-44 1066-67	CRUDE OIL IPE (S-barrel)	May 23.78 -0.09 23.83 23.87 1,080 10,428 Jul 24.08 +0.06 24.12 23.90 949 4,873	Dec 306.9 -0.8 308.1 305.9 2,015 6,426 Her 305.2 -0.3 306.1 304.5 1,617 13,189	800			÷.	**e
gh low 1036 1066/1061	Latest Day's Open	Aug 24.10 +0.07 24.15 24.15 12 1.387 Total 13,872 184,018	Nery 305.7 -0.5 305.0 305.2 194 4,651 Aug 307.7 -0.5 308.0 307.5 135 1,819	950 1 28 51 45	26 27			
Mi Official 1038 0-8.5 1062-2.5 erb close 1061-61.5	price change High Low Vol Int Dec 22.22 -0.06 22.50 22.24 17.073 61.048	SOYABEAN MEAL CET (100 tons; S/ton)	Get 307.3 -1.1 303.0 302.4 32 1,085	IPE Dec Jan Dec Jan		┟──╁╍┟──╏──╎╎	3. 11	·· -·
pon mt 82,735 stal daiv Turnever 16,385	Jan 21 92 -0 05 22 16 21 92 8,385 53.287	Dec 220.4 +1.9 220.8 218.3 11,008 37,133	Dec 303.1 -2.7 267 Tethel 3,885 27,799	2200	28 29		5.	•
COPPER, grade A (5 per torme)	Feb 2147 -0.08 21.66 2147 2,846 25,877 New 2090 -0.06 21.19 2099 1,606 28,234	Jan 215.0 +1.2 215.5 213.4 3,069 13,198 Mar 211.3 +0.6 212.2 210.6 3,078 13,306	SUGAR "11" CSCE (112,000/be; cents/lbs)	2300 25 49			100	
2006-6 1957-8	Apr 30.52 -0.04 20.70 20 52 1.477 9.485 May 20.05 -0.03 20.21 20 05 424 4.865	Nay 208.0 +0.3 210.0 208.8 1,008 9,992 Jul 208.9 -0.1 209.8 208.5 758 6,565	Mar 10.33 -0.02 10.38 10.32 6.547 66,717 May 10.44 +0.02 10.45 10.41 1.384 30.458		G has the same meaning wherever it a	occurs in the clues		• •,
evicus 2012.5-14.5 1971-72 gh.lew 2013/2010 1980/1957	Total As an	Aug 208.3 -0.2 209.0 208.5 135 1.319	Jul 10.37 - 10.38 10.36 112 19,007		ACROSS 4 Hos	pital worker in oeat		
M Official 2013-4 1972-3 arb close 1961-2	HEATING OIL NYMET (42.000 US gats, cus gates)	Total 18,154 55,094 E POTATOES LIFFE (E/tonne)	Mar 10.39 - 10.40 10.38 77 3,575	Duber \$20,40-0.43x -0.125 Brent Slend (dated) \$21,83-1.87 -0.24	1 G emperor, one extreme in style his refusal (8) 6 Leav	(7) ing present, if G. for		
170,264 12 day tumover 46,032	Latenst Day's Open price change Kigh Low Vei int	Mar 65.0 -3.5	Mary 10.35 - 10.39 10.38 100 657 Total 8,731 152,498	Brent Glend (Dec) \$22.31-2.35 -0.15 W.T.I. \$22.88-2.90x -0.08	5 Plate gets chucked around world	kers with fish (9)	[· • • • •
LINE AM Official 1/5 rate: 1.6501	Dec 65.60 -0.35 66.25 65.25 14.202 40.839 Jan 65.50 -0.32 66.05 65.10 8.320 31.228	Apr 63.0 -1.5 70.0 59.6 10 1,306 Mary 71.5 -2.0 17	COTTON NYCE (50,000/bs; cents/fbs)	OR_PRODUCTS WIEprompt dativary OF (Itome)	s soaking mixture produced (5)	ird decapitated hound	1	
LME Closing £/\$ rate: 1.6457	feb 64 35 -0.27 64 95 63 95 3.159 15,916	Jun 87.5 -20	940 72.27 -0.25 72.57 72.23 2.726 23,855 Wer 74.23 -0.22 74.55 74.20 938 14,399	Premium Gesoline \$235-237 -2 Gas 08 \$209-210 -2	without effect of rain (8) 8 Did	s task needed to store	13 - Contraction of the second	··· ·
n: 16473 3 millis: 16441 6 millio: 16401 9 millis: 16257	Mar 62.50 -0.07 62.75 62.20 1.353 8,710 Apr 59.35 -0.17 59.80 58.80 578 5.357	Total 17 1.325	May 75.30 -0.25 75 65 75.30 390 8.844 Jul 76.00 -0.25 76.20 76.00 84 6.730	Heavy Fuel Of S110-112 -1 Naphtha \$220-223	perore dark (6) 11 C of	mation (4,4) pject of worship could		
HIGH GRADE COPPER (COMEX)	May 57 15 +0.03 57 50 57.80 168 3,127 Total 28,430 122,087	FREICHT (BIFFEX) LIFFE (\$10/index point)	Get 76.10 -0.10 78.10 75.95 20 1,288	Jet kuel \$237-239 -1.5	12 Hero of railway police? (2,3) be b	inding (4)		
Sott Day's Open price change jägt Low Voi int	GAS OIL PE (Stome)	Rov 1482 +47 1485 1444 145 537 Dec 1431 +56 1431 1385 153 501	Dec 75.93 -0.12 75.00 75.90 33 4,517 Total 4,174 68,075	Dissel \$218-220 -6 NATURAL GAS (Pence/inerm)	anchorage (9) (9)	og making a recovery?		
93 10 -1 10 94 30 92.60 210 2,662	Sett Day's Open prior cheater High Low Voi lot	Jan 1382 +40 1382 1350 123 1,983 Apr 1397 +42 1405 1383 42 688	CRANCE JUICE NYCE (15,000bs; centerias)	Becton (Dec) 15.30-5.50 -0.075	14 Beardsley's biographer, G 17 Bird by re-formation (6)	of leisure and luxury		
ne 92 05 - 1.40 03 50 91 60 4.767 22.406 ne 91 35 - 1 10 91 30 91 60 32 1.875	Nev 208.75 -0.25 209.00 206.25 8,685 28.007	Jul 1177 +27 1180 1155 18 207 Oct 1295 +36 34	Hev 109.30 +2.20 109.05 107.00 140 4.564 Jan 96.45 +1.10 98.60 97.20 2.007 6.857	Peroleum Argue. Tel. London (0171) 359 6792	18 The coin is for a saint (7) (9)		5 to 100	
42 9065 –12091.709000 8 942 er 89.60 –1.1091.0089.301,17611,849	0mc 204.25 -1.00 205.00 202.25 8,537 24,835 Jan 201.50 -1.50 202.75 200.00 8,324 20.076	Tetal 472 3,979	Mar 101.10 +0.80 101.50 100.10 432 4,754	Gold four tray and \$379.35 +0.40		forward or go back.		
89.25 -1.00 7 545	Feb 197.00 -1.50 198.25 195.50 1,766 8.967	Close Prev 8FI 1358 1333	Nery 103.50 +0.80 103.80 103.40 251 1,243 Jul 109.50 +0.80 106.00 106.00 18 620	Silver (per troy oz) 482.50c +0.50	21 G coat stolen hy sailors to 20 Dray	v a line in principle,	: **	
Can 0,2005 07,705	Mar 19150 -1.00 191.50 190.75 69 6.166 Apr 19550 -0.75 185.50 185.50 15 4.730		Samp 107.85 +1.15 2 252 Tathai 2,455	Pizenum (per troy oz.) \$381.75 +0.75 Patiadium (per troy oz.) \$117.50 +1.25	escape going to courch (6) msy	be G (4)	N	
RECIOUS METALS	Total 17,600 102,105			Copper 99.0c Lead (US prod.) 45.00c	things are stored 'iggledy stiff	utch, perbsps, awfully before mid-July (7)		1
LONDON BULLION MARKET	M NATURAL GAS WINEX (10,000 metBu.; SimuRu.) Lateral Day's Open	FUTURES DATA All futures data supplied by CMS.		Tin (Kuala Lumpur) 14.70r +0.22	25 Part of plough G for ratein	y ancient goddess		
tos supplied by N M Restschild)	price change High Law Vol int				IDE government control (5) 24 Section	thing G to see resur-	<u> </u>	
d(Troy oz) \$ price £ oquiv SFr oquiv ae 379:0-379:50	Dec 2.650 +0.077 2.660 2.530 18,542 39,615 Jan 2.625 +0.063 2,630 2.515 7,134 23,638		MOI INCO DATA	Sheep (live weight) 126.50p +5.65	28 At last setter's got some rect	d before decease (5)		
nang 379.10-379.40 nang fix 379.25 229.320 481.344	Feb 2.375 +0 059 2.380 2.275 3.026 14.307	Minor Metals European free market, from Metal Builetin,	VOLUME DATA Open interest and Volume data shown for	Figs (five weight)† 91.01p -5.67 Lon, day sugar (raw) \$259,60 +2.20	27 Terror long ago caused by	vay's climbing heaven-		
moon fix 379.30 229.753 482.925	Mar 2.200 +0.048 2,200 2,120 1,209 10,164 Apr 2.059 +0.034 2,059 1.995 528 5,899	S per to m warehouse, unless otherwise	CONTRacts traded on COMEX, NYMEX, CET, NYCE, CME, CSCE and IPE Crude Oil are	Lon. day sugar (wite) \$314.10 -1.50	2 Ollarral about From ab	Solution 9,218	<u>, 1</u>	
's High 379 45-379.75 's Low 379.00-379.30	May 2.010 +0.025 2.010 1.970 466 4,873	stated (last week's in brackets, where changed). Antimeny: 99.65%. \$ per tonne.	one day in arrears. Volume & Open interest totels are for all traded months.	Barley (Eng. feed) £100.0 Maize (US No3 Yellow) 127.0	28 Drink making one go tantan		5	
vious close 378 80-379.10	Total 34,121 143,555 34 UNLEADED GASOLINE	1,950-2.000 (2,000-2,050). Bismuth: min. 99,99%, tonne lots 3,20-3,50. Cadmiume		Wineer (US Derk Norm) Und	wrong and timid about it CHO		4	
e Lan Mean Gold Lending Rates (Vs USS) onth	NYMEX (42,000 US gails; c/US gails)	min. 99.95%, cents a pound, 70-75. Cobalt: M8 free market, min. 99.5%,		Rubber (Dec)♥ 80.50p -1.50 Rubber (Jen)♥ 80.50p -1.50	CIDINIT	ENDER TITTNE TAX		
anths	Latest Day's Open	21.00-21.50 (21.00-21.70); man. 99.3%	INDICES	Theorem (11, 11, 11, 11, 11, 11, 11, 11, 11, 11	make mistakes? (8)	W A E P R D Gontragand		
	price change High Love Yos int Dec 65.05 +0.05 65.00 64.70 13.933 28.688	19.50-20.80 (19.60-20.60). Mercury: min. 99.99%, \$ per 76 lb flesk, 162-172, Metyb-	Residens (Base: 18/5/31 = 100) Nov 5 Nov 4 month ago year ago	Coconut OR (Phil)\$ \$765.0v +15.0 Paim Oit (Metiny.)\$ 545.0z +5.0	DOWN			• •.
292.40 483.20	Jan 62.65 -0.10 63 15 62.25 5,228 13,238	denum: drummed molybdic codde, 4.00- 4.30. Selenium; min 99.6%, 2.90-3.80	1853.1 1852.8 1894.9 2136.5	Copra (Phil)\$ \$435.0z Soyabeans (US) 187.0z -1.0	I Anaesthetic, if G used in relation to phases of the) ¹	
onths 300.45 494.50	Fab 62.25 +0 17 62.40 61.80 1,336 4,975 Mar 62.25 -0 03 62.50 62.10 230 2,259	(2.90-4.00). Tungetes one: standard men.	CRB Futures (5ase: 1967 = 100)	Cotton Outlook'A' index 75.50	moon (6).			•
aa 309.70 506.95	Apr 64 40 +0.27 84.40 64.35 219 2.554 May 63.80 - 63.80 63.80 13 1.157	65%. S per tonne unit (10kg) WO, cit. 40-50 (40-53). Vanadium: min. 98%. cit.	Nov 4 Nov 1 month ago year ago 236.52 237.30	Wooltops (546 Super) 403p It per tonne unless otherwise stated, p perceiving, c consults,	2 Safety device to beat up car, G in case of takeover		s. N	
d Coins \$ price £ oquív.	Total 20,965 54,200	3.10-3.25. Uranizare Nuesco unrestricted exchange value, 14.80 (15.25).	GSCI Spot (Base: 1970 = 100)	Tringgit/kg. In Malaysian centeria. A Elec + Oct/Nev z Nov V London Physical. 5 CiF Rottentam. & Bullon metwe	(9) FIRIO			
memand 381-384 231-233			Nov 4 Nov 1 month ago your ago		A WEIDKIN but one in the set of the			1
			202.25 203.75 206.75 183.96	ches. " Change on week, †Sased on ny head of pigs sold.	3 Wrinkly but easier to write	R S G D G A	•	-

and the second second

Signs Ve

in tran

interest

in sold

.

r

1.1.1.1.1.4.4.4.

1.1 1.171

21

ويوافقه والالا

· · · · · · ·

. . . .

900 and 19

1

1.5 (r.) IN PORT 21. 1645 یدی. ۲ بر بر بر 10.00 $\mathcal{A}_{1}: \widehat{\mathcal{A}}_{1}$ ني ... د Alexander of

2 S I

6

1.1 m

11

^{r ,} traniep

FT MANAGED FUNDS SERVICE 1977 - P. 1977 - P. 1978

Offshore Funds

27

● FT Cityline Unit Trust Prices are available over the telephone. Call the FT Cityline Help Desk on (+44 171) 873 4378 for more details. OFFSHORE http:// 2011 La fana Salay Print - 17 Die La fan Mart Print - 17 Die Salling Support of Yald Harmitrice French Manzager http://www.international.com Harmon Indianal List Association International List Associationes International List Associationes International List Associatio Newton Fund Mars (CI) Ltd (12 P) Has 198, St Holes, James di Ltd Singer & Friedlander Cic 10.17 -0.01 0.00 Saciete Generale Group STAN Sunny Develor Firsts 20 Stat Sunny Proving Stat 26 STAN During Bonnika \$1150.20 Statisty Sig FL (m) 2.115 -0.045 Harm Answitzm Sig 52.827 2.813 -0.004 American Sig 52.827 2.813 -0.004 American Sig 51.754 1.841 -0.007 American Sig 54.754 5.025 +0.001 Condensati Answer Sig 54.754 6.025 +0.001 Scouth East American Sig 516.001 17.401 +0.4480 14.21 510.55 510.00 510.00 Ξ Stater Facel Pic. _ Katthi Korea Vestore Fund Pro Vesse Particia IV \$10.54 Sept Vesse Tarticia IV \$8.50 F1 69 1012 Scott Data Ada 5/2 Status 1/2 C2378 2/42 -0.004 6.00 Barding Bard 3/2 C2378 2/42 -0.004 6.00 6.00 Barding Bard 3/2 C2378 2/42 -0.004 6.00 4.00 Barding Bard 3/2 S2180 2/10 -0.004 4.00 4.00 Contraction 0 C24.00 6.00 4.01</ 8 Elister Reak Low ent Services a linear and investing Aread Mr Yellow See Javes TTT PLC Royal Back of Scotland Pd Mars (Jersey) Ltd P0 (an 442, Ontario Jama, Science, Science, 1997) Yaki Korea Fond \$723.42 niti Talwan Parat N________\$1135.14 +4.14 -- Vine Koras Fead Fic Vine Koras Fead Fic Vine Koras Fead Fic Vine Koras Fead Fic Vine Koras Actors Status Vine Koras ISLE OF MAN TSB Fund Managers (CI) Ltd. PD No. 538, St Helm, Johnny (SIB RECOGNISED) ini Ta∳ Press 2.34 Koren Balenced Relato Pred Koren Balenced Relato Pred Witzen Boud Point Pre Witzen CB Find Pho Noren CB Find Pho Noren Capital Grouts Part Noren Capital Capital Grouts Part Noren Capital Capital Grouts Part Noren Capital Grouts Part Noren Capital Capital Grouts Part Noren Capital Ca Land Brune, Dangtas, toll Bigras (1000)F Citization F 0 <td Korne Goldso Dynasty Find Pic 100 - 30.180 +0.003 Rome Investment Management Indiand Ltr Lans forth Super Pice - 87.2 - 0.75 -0.07 Norme Investment Management Infinited Ltd: All Dies Norme Law (1998) Darte All Daru and Ltd Marathan Accel Macqueract (Irainet) Lid (c) Colum Spirk Accel Macqueract (Irainet) Lid (c) Estate Spirk Accel States Chibmok H.A. ISLE OF MAN Coutts & Co (Jersey) Ford Name 2 Amet Mgt______ [15.80 14.46 40.01 8 Amet Mgt______ [15.80 14.46 40.01 2 Danh 6 Full Inc Mgt___ 211.00 11 16 -0.06 8 Danh 6 Full Inc Mgt___ 211.00 11 16 -0.06 8 Danh 6 Full Inc Mgt___ 311.07 12.25 40.07 (REGULATED)(**) 清 清 清 法 ESC Fund Managers (Jerney) Ltd CC Tasket Carney Faul Ltd Margan Gradell Cash & Money Mar Brat Lar Braz Braz Br 21 506 +0.041 0.87 8932.87 30.877 +0.072 NV Stadue Craciff Lycomode half Accept Migd (400) Ltd II Consumply Price, Hung Kang Tol-44 2221 AT722 Factor (1997) Factor (1997) Coeffic Lycomode Tayatiy Statunda Pin Coeffic Lycomode Tayatiy Statunda Pin \$1.00 5.58 AXA Equity 2. Law last Fried Mgs Extpans Equity ______ 2554 279.90 +1.15 For Lastan Equity ______ 53569 2.5740 +0.274 Morta Amer Forder ______ 254233 2.5920 +0.910 LIK Equity ______ 264.71 259.65 +1.79 Pathel Equity ______ 700.81 200.22 +0.34 UK Equity ______ 104.85 110.26 - GUERNSEY takes 3% public charge Uter processor Prest Internet Dated Incomes Prest Enrold Long Terro-USE, \$32.95, 35.4802-0.1001 Enrold Long Terro-USE, 2017157 18.720-0.1011 * Offer Proc Includes 32/5 Initial Diago +0.030 -+0.027 -+0.021 -+0.002 -+0.001 -(REGULATED)(**) Conflict Systems Skiden System Skiden System Skiden System Skiden Systems Skiden S Saling Saring and Price Price introducing REUTERS, the revolutionary live dutoscreen from Futures 1 Integral Band Arbitrage Found Limited Bond Arbitrage Fd 11d - \$100,03 Orbits Intentment Management Liti Poger that delivers är. Suthen Enrope Ford Mann Instant Ltd Harcanet Control, Happent Paris, Database 200 5621 4762756 TAA Japan Pa Kingson 5 1980,15 172.02 financial data, prices NEAL SA NEL BA NELL DA NEAL DA NELL DA LAL RA NEL SA NEL SA NEL SA NEL SA Anamer Spectraline Dot 100 B11,84 B11 and news in your hand. Brendrar Klainsent Lannin Int Hat So La Touche Rober SUC, Dable 1 00 305 Small, partable and-STL 51 11.55 · · perfectly informed, mini **GUERNSEY** City Firmencial Admin (Init) 11d Internet Option & Manufac. ET 27 1.40 Rectains Option & Manufac. ET 27 2.43 Rectains Option & Manufac. 102.60 102.63 -0.17 -Fis Advanty and Other Onlyings . . . REUTERS offers you ΞΞ (SIB RECOGNISED) BZM Annut Manager Japan Badar Paral REUTERS The Number I Tradit Glabel Cash Fright Fig. No Number Networks in St. 20 mm Old Michael Informational (Informati) 114 Granges Market Body St. 2778 1.377 mm 65 Barrige Statustick B. 2017 0.2023 mm 105 Barrige Statustick B. 1773 1.282 mm 105 Barrige Statustick B. 1773 1.282 mm more dat, more tes fines falling Baylog war Yold Garge Price Trite Bra - D. Fram quickly, with more neat Managers (Gunmery) Ltd BT & PHILIPS instruments per screen.

	PO Ros 255, St Peter Port, Cancerey Cl. 01461 710891 Alt Others Food Lad	Starting Jati Bond & Coy. 2006.60 100.06	Trained Fant	instruments per screen, more flexibility to customise and a	BTA PHILIPS	USS Environe Stationales (1,173 1,282 PBI Environe Stationales, DM1.323 1,282 USS Managet Correct, SUSS2 1,008	- Par Bit Managara (CLA) List new dates, of indexed Anapyt	Protected Capital Play 6, 212.323 -0.039 - Polected Capital Play 5 00 R. \$11.259 +0.010 -
	ben in Egnin Mid 5 studin 1,7385 int Egnin Mid 6 studin 1,7385 2 sh Egnin Mid 6 \$2.078 2236 E Colo 6 \$1.071001	CIRC Days & Management (Comments) and	Rith-Territor I alle American Television I de Re	more of the UK then any faunce	COVERS Network and Paper supplied by IT present and Paper supplied by IT	DBI Exercises Statistics (1, 173 1,282 DBI Exercises (1, 174) 1,174	- Geliter Juli Magt (Johl) Ltd - Saturitae Tron Lis Sip, 10.97 (1.67)	Hambros Fund Managers (Jersey) 12d Hantos Havi Grant Hole 20,946 1,8674d 8.00 Hantons Equily Income, 92,8740 0,8756ar 3,49
	UK Enerty Clean A 212036 1.2014	Linking (Construing) Construing (Construing) Construing (Construing) Single (Construi	Complementor 5 \$72.50 Institutor Threaden Ladia Fand pin India Fand			DEM 96 Fined Internet _ DM1 J311 1,067 Racting ktl Fined Internet _ E1,035 1,114	- Saturdine Trans Lin Sing, (SJ.97 (LS)) - Examine Trans Lin (RD) 80,544 (L.00) - Example Engly - RSRR Franci Managers Link	
	Acients & Haville Fei Manuet (Geomeony) List PO Bre 266 St Party Part Geometry Ci 01461 710651 Westillware Bard Fast Jc. £1.652 1.6657.14	PCP US Baller Band & E17,14 17,44 PCF US Baller Ball & CF28,38 28,58		 For fertilier information at a FREE 1 		USS Managet	Larres Starting Profe Ltd \$16.05 10.60	Dir Golus Russive
1	Wentlinner Band Fast (n. 21.852 1.8557.14 Equilibible International Fast (Managers Ltd PD Kint 256, St Pater Part Glambery CP 01481 710861	PCF Bathgood Comments Strict St. 17	The Minist Markety Fred, - Child (Mark Fast) (CS Arcone Units	FREEPHONE 0800 88	Status The Pre particle distances	DEM (rd. findersprint DATA DOS 1,1577	ATC International Center	The second second state
·	Starting High Yid	PGF Ind Menoged (Ru Canada das Biltitingti			Renfey int Discionatel 20,075 1,055 *** 1253 Special Martat	 Main Main Fast Wit Story Han S1,1375 Sandhag Monay Manafit	Seite Fair: Brite and House, \$54,7294 10,2500 0,00 Talwar Capital Nov 0
	Guinteen Flight Fil Mayrs (Guaraney) Ltd PO Bas 250, St Peter Pott Beauty Str 30K, Cl English 01401 712178 (Jamine 01401 710051	Castle Managetnent (Gentremy) Ltd Te Cast Res Jamme (Lt. 1940)	Ediabargis Dell Trent Hanagers (Indent) 134 30 Hartent Brast, Satis 2 00 3031 70024	an a	Safing Suping our Taxa	Orient Balancoil Panet Pic MM	Syfrytis International Freed Harmogenergen Loi ATD International Delars ATD Strandsond Delars Strandsond Strandson Strandsond Strandsond	John Goryotti Monagementi (Janamy) Ltd Data Association Bio Co. Ltd
and the second	Enguites 01481 712178 Denine 01481 718851 Enforces Flight International Accord Find (Delia) Las Dollar House	Cuchi Trut \$1.0928 8.30	Hanny Can Ling Mills. 92.1	Barris Laboration and a strength	Pand" Pripe" - genia	Pacific 21st Contexy Femil	Balan Equity \$1,1983	US Sadageard GTO 7280 Protestations pice on East 20. \$70,34
ROSSWORD	Belacesas Flight International Internet Final (Dollar) CA Add LiG Doller Homey 0 EX2,196 CI Add LiG Doller Homey 0 EX2,196 CI Add Von Manay 0 EX2,196 CI Strate Von Manay	Constitue Energy Oct \$1. \$41,44 42,08	Factorizated International Paralis (%c (n) 14 (Norm Stress, Data): 5 00 3031 10242 algostik for Storization. 60.00 \$.00 60 Storigen Stress Storigen (% 51.00 60	Profile Islandstical Ford Pic 33 Paratery Spon, Date 2 5 Balta Statistical Date 2	CFP Internat Rata Arbitrage Fund Pic	Paulic Growth Famil Ltd	USS Belanced Postalo	Rest address pitcs as Doc 13. \$1.27 UK Safeguard
	Bind Charles To Units 2000 Factor 10 1000 Factor 10	Destruct Management (Germony) Ltd Destruct Malad Exc20.10 28.11	Hart-Taren US Primer". \$1.00	7 AGentini F	State Presi	Prime Weisher Offichere Pands Pic (4) (2) High Income Class A	Deserts Microsy New Picture 2001 (2020)	
	Wind Commercy 54 202,11 10,21 02 <th>FP Connect: FP Unitedia Color 12 Bay 30. \$12288,12 FP Unitedia Cost 12 Bay 30. \$1378.00</th> <th>Pederstal Sant-Corp (25 Gert Scontling Fund bettellowit Sart Server - \$1.004</th> <th></th> <th>Copital Vision Fast Fic NV</th> <th>Particle Accel Management (Insight) 14</th> <th>Fin Silitor Buck Mingel page lais of July (500)</th> <th>Percent Development Income Parts Annetican Gordy tax. p. 22.8510 2.55004 -0.0100 2.09 Annetican Gordy tax. p. 22.8510 1.8520 -0.0200 2.03 Burling Development Annetic Parts Percent Interface. PLOTID 5.4420 +0.0200 = E Marg Particular</th>	FP Connect: FP Unitedia Color 12 Bay 30. \$12288,12 FP Unitedia Cost 12 Bay 30. \$1378.00	Pederstal Sant-Corp (25 Gert Scontling Fund bettellowit Sart Server - \$1.004		Copital Vision Fast Fic NV	Particle Accel Management (Insight) 14	Fin Silitor Buck Mingel page lais of July (500)	Percent Development Income Parts Annetican Gordy tax. p. 22.8510 2.55004 -0.0100 2.09 Annetican Gordy tax. p. 22.8510 1.8520 -0.0200 2.03 Burling Development Annetic Parts Percent Interface. PLOTID 5.4420 +0.0200 = E Marg Particular
E. al	Sig Han Tield Bit 54 12228 23.51 61 7.42 bit Defined Greek 54 502.63 45.48 69 2.30	EVS Exceptionet Management Ltd Taxos Energing Find Lin. \$10,3200 -0.0700 0.00	Treatment Gis Spring	2) Chim Opportunitie F	Chast Martalian per Caritical Indeed	Argenten Partiele	15DOEN	Planter Markella
	Ind Equily	Global Particila Management (Research 1 td	The Fiduciary Trank Elabel Fund Lower Abbey Server, Jubila 1 00 353 1 72031	JACKA STONE F	Characteria Instance Frank Administrators Ltd Spee front Antonios prov. Altr. 22	British 81.30 41.00 Aryandan Portisha, 81.01 41.02 Partisha Portisha, 51.01 40.02 Data Portisha, 51.74 40.01 Data Portisha, 81.72 40.01 Data Portisha, 81.72 40.01 Data Portisha, 81.72 40.01 Data Portisha, 81.72 40.01 Informative Portisha, 81.02 40.01 Informative Portisha, 84.02 40.13 Patabasan Portisha, 84.03 40.13 Patabasan Portisha, 84.03 40.13 Patabasan Portisha, 84.03 40.16	JERSEY (SIB RECOGNISED)	handbar Tuntdall / langest / 4.4
	128 Manny Find 0 \$20,13 (2) 4.57 Swillog Minory Fund 0 £10,78 (2) 5.10 Yen Minory Find 0 \$750(2,21) (2) 0.79 Cin Minory Find 0 \$750(2,21) (2) 0.252	Dishai Coner Bil Oct 1	US Band	1 atteretory F	Harry Denterto Corr feeld \$10.50 Hint Sun Ante Class A., S10.510	Hampson Particito	ing Parties Andlage Andres + ar Yang Carpto Palan Palan - 67	Starter Starter <t< td=""></t<>
	Che Marray Fund D March 18 (2) 2.12 Manual Company Fund Se Sty Jul 88.76 (2) 3.77 Status Band Fard - Ba Sty Jul 88.76 (2) 1.78	Generoscy Capital Measurement Linking Chi at Re as Class		Scottlash Vision Management (Datand) List (c) Lover Alloy Street, Datas 1 00 35317803111	Technology 2009	Citics Proteinte 510,77 40,07 Drins Proteinte 510,77 40,07 Point Proteinte 510,77 40,07 Roburnatio Profestion 510,77 40,07 Analysis Profestion 510,77 40,07 Patterins Profestion 65,10 40,07 Patterins Profestion 64,08 40,17 Pointer Profestion 64,08 40,19 Pointer Profestion 65,00 40,19 Pointer Profestion 510,277 4,18 Pointer Profestion 510,277 4,12 Tabulants Profestion 510,277 4,12	Alls Fund Managers (CI) Ltd	Kerry Investment Management (Jorsey) Limited New Yok Investment Limited Pacific Dynasty Casto
	State State <td< td=""><td>GCM South Action Inc Statute 10, 127.00 +0.72 - GCM USS Special Case., St230.20 127.00 +7.40 - Hambres Ford Menagers (CI) Ltd</td><td>Res Gif Annet Myr. Swinnig Liff, San Liff, Annet Myr. PLC</td><td>Lower Aldow Street, Databilit 00 Styr72001111 Lik Growth</td><td>Cill Investment Fund (Ireland) Cil Xere Entry 94.00 -0.40 -</td><td>Paritan Melli-Manager Global Faul Pic Managering States</td><td>Statistic Darrows Frank Linded</td><td>Lioydia Privata Banking (GI) Ltd Lioydiaux Work UK Part. 23462 3445 - 122</td></td<>	GCM South Action Inc Statute 10, 127.00 +0.72 - GCM USS Special Case., St230.20 127.00 +7.40 - Hambres Ford Menagers (CI) Ltd	Res Gif Annet Myr. Swinnig Liff, San Liff, Annet Myr. PLC	Lower Aldow Street, Databilit 00 Styr72001111 Lik Growth	Cill Investment Fund (Ireland) Cil Xere Entry 94.00 -0.40 -	Paritan Melli-Manager Global Faul Pic Managering States	Statistic Darrows Frank Linded	Lioydia Privata Banking (GI) Ltd Lioydiaux Work UK Part. 23462 3445 - 122
	Yun Gond Ford Pla \$45.71 41,277 20 4.346 European Bond For	Japanese (IIC	65-66 Lower Mount St, Dubin 2, Irained 00363 1 8750 St Grill Panel Management Life (st	AT Grand FLAT FLAT	Citizens Investment Tract Magt Company CITC Poster Mill	Figures Handdament (Irained) 11d	- Sentrato Maria 5 CT2.2484	Dealing Weeksy &' Threaday
	$\begin{array}{c} \mbox{Cm} interver ({\rm Part}, \dots, 0) & \mbox{Dist}(3.63) & \mbox{Ci} 2.22 \\ \mbox{where} interver ({\rm Part}, \dots, 0) & \mbox{Dist}(3.74.62) & \mbox{ss}(2.74.72) & \mbox{Dist}(3.74.72) & \mbox{Dist}($	Hantering & C & Fit	GAM Anit her H Change 16 GAM Anit Ace H Change 20 GAM Service 16 H Change 20 GAM Service Ace H Change 15 GAM Servi	Singer & Frindbarder Bre Pands Lis (*) 21 New Street, Batagegets, B2204 4161 0177-028 8220	Ant Darte St.30	Claimed Bauery Pie Divisary 14.03 -0.11 Britten Borne Pie Divisary 11.30 +0.05 3.64 Divi Cambridge Biblin 20 3.14	Bauf Age Corr	Louisbard Oclier (Jorsey) Ltd Pant Samue (note: Chiller Lat
	Garbart Bayelly Fond	ind ins-Sig lighting	GAM Eartips Acc H	_ 106 Senait 41e 108.27 _0.44 7.89	Citt Relatification (%) (%) (%) (%) (%) (%) (%) (%) (%) (%)	Productini Securides Fatures Hampenet inc Indust-Incustoriana. \$10,44	Barcieys International Funds	Actempteday Change Chan & Lots Public
	UK Fund	Bobel Manager Particle 122.0 139.0	GAN Tokyo Ino H.,	- UK Bant - 47 Mazzu +14 24 - UK Bant - 47 Mazz +0.00 2.00 - UK Bant - 47 Mazz +0.00 2.00 - 0.00 Jan - 47 Mazz +0.00 2.00	For Defit Lynnik an julini (28 sungelar)	Pachale-Aude MCHarge 0. \$5085	Acception Er and	
	Tot instruct Fund D District field C 2.22 instruct Fund D STAR S	"(The paint includes of minimum probability simple	Gran Ande Jaco H Dividio no Gran Ande Jaco H Dividio no Gran Davis Jaco H Dividio no Gran Drives Dividio no Gran Dri		Dainer Barope Final Higrs insigned Ltd	1945 Grind Fund And Grind Early Patto \$1015 -0.00 - J. Bethenhild International Asses pic	American Er (not) 544 (5.386) 1.463 -0.018 1.0 Babel moores (m2.54 - 20.807) 0.7044 -0.0024 2.3 Schell Processes - 54 - 29627 0.80770 +0.003 1.0 Convert France - C \$101704 - 4.9	Care & Conta -
	Annual Freder	Lazard Fessi Managers (Ci) Ltd Lazard Prind and fra	Columnus Flight Saluct Finds Mr. Po Bas 250, St Palar Pol, Gaussey 671 304, C	- Calla Sant4 51.453 +0.057 7.85 Calla Sant4 FF77.442 +0.057 7.85 Caragena4 FF77.442 +0.077 7.85 Caragena4 FF77.442 +0.077 -	ALS Particle ASLOT	Add US3 Marright (11.07) T2:110 pt ALTY - CVA LLAW AND	30g Printers Income C \$10 110at 4.9 Barton 28.480	Chang & GERTS Sharty Stv15.21 -0.04 Chang & GERTS Sharty Stv4.50 Chang & GERTS Sharty Stv4.51 Chang & GERTS Stv4.51
	Gabel Enging Runt. 54 64539 48.20 12 126 Gabel Link. 84 51 12 12 12 12 12 Gabel Links Frank 54 187 84 105.82 12 12 12 Gabel Anarthy Runt 54 12 12 12 12 12 12 12 12	Land D'fee der (en. 122) 8 2.14 (4 5.09 Land D'fee der (en. 122) 8 4.13 Land C'fe fee (en. 122) 8 4.13 Land Fee fee (en. 121) 8 2.14 Land Fee fee (en. 121) 8 2.14	Biggins Inflam Backy 8 Status 7481 712176 Dataset 4481 71481 Magain Inflam Backy 8 Status 71407 7168 -0.08 Magain Inflam Backy 8 Status 71407 7168 -0.08 Magain Inflam Backy 8 Status 71407 7168 -0.08 Offen A -0.08 -0.08 Offen A -0.08 -0.01 Offen A -0.01 Status 714 714	1 5000000 419 100421 011 - 5000000 419 52604 00000 - 5000000 419 101200 -	Dragen Korne Fend Pie. 1987 - 19.545	SJP (Meraged	Description Description Description Control Contro Control Control	Case # (620)
		Lazard Frende Abeet Recognision (Ci) Litt -	Chine 8	- Sarana	Drusdam Kleinwert Bearen ist Algt Services Ltd. A Metan Demadly Paul Pic	Hartin Anisation E Magel	Starting Bond31y C 394284 0.4413 -80000 8.5	Char (6770
	PO Rox 255, Generally 01481 715454 EMMA Moregoid 4 95,000 6,3701 +4,000 6,365 EMMA US Dollar Mart 4 Second 110,539 +4,013 5,21	LFGF - Linux IIY	Handbros Franci Handbyers (Irsiami) Ltd ad Francial Services (201, Dable 1 0171 505 147 Adam Koren Advantage \$8.37 6.54 -0.10 0.00	1 000000	Egentos Capital European Fend Pic	For Fast C \$11,534 12,143 +0,051 -	15 Dater Share Ches	Case of Disk (Jung) \$40.28 \$40.10 - Case of Disk (Jung) \$23.33 \$40.09 - Case of Disk (Jung) \$23.33 \$40.09 - Case of Disk (Jung) \$23.33 \$40.09 - Case of Disk (Jung) \$25.43 \$40.09 - Case of Disk (Jung) \$25.43 \$40.09 - Case of Disk (Jung) \$25.43 \$40.09 - Case of Disk (Jung) \$27.02 \$40.01 - Case of Disk (Jung) \$27.02
	Bank internet and the second s	Lioyde Bank Fund illenangers (Ruemery) Lid Cantesbank Gunt to Stuff (Ruemery) Lid Cantesbank Barti 1923 - Bat Staff (L73 Earospein Barti 1923 - Bat Staff Baro Spein (cz 23	Henderson Grostingelie investinget Co 32 St Mary et Hill, Londen, 8039 SAJ 0800 63120	Server 47 82.84 41.05 Server 44 871.374 42.95 Server 47 82.84 42.95 Server 47 82.84 42.95 Server 47 82.84 42.05 Server 47 82.84 42.05 Server 47 82.84 42.05 To Res 47 92.84 42.05 To Res 47 92.84 42.05 To Res 47 92.85 42.05 To Res 42.95 70.85 42.05 To Res 42.95 92.85 42.05	New part E1	A ACCENCENT ANT PERSONN AND CO. PC. GAU US3 Nerrogan	For Capital Monte pas Newton Fund Managers	
	Balles Namenden		Growthamped Brits 2227 Good Managed 67,2247 Notes Anaption 51,342114 Notes Anaption 51,3441 Packé & For East 61,0746 LK Gervik 75,073	Saman	Emerging Marinet Growth Fand Pic	Special Depend C	For Coulds and Johnson (SAI) Recognitions	Cane L Grange High Yeal. Eart2.17 - Cane L Grange High Yeal. Eart2.17 -
	BANAA COTE Ear Normy 0	Herrill Lynch Cherney Region Cot 00		Amirtini Sandi, 41 65,01 -11 Amirtini Sandi, 42 65,01 -11 Amirtini Sandi, 43 67,023 -40,01 Amirtini Sandi, 47 52,001 +6,011 Amirtini Sandi, 47 52,001 +6,011 Amirtini Sandi, 41 47,123 +6,011 Amirtini Sandi, 41 47,143 +6,015 Amirtini Amirt	FLIT, investment Trest List (a)	Uk Tractori C14234 UADD UADD C14234 UADD UADD </td <td>Carbonne Frank Montpers Intil Ltd (2) PD Rox 275, 45 La Viena S., Junny Guilla 1980can</td> <td>Chart (Single Har Vall) Exrt2.17 - Chart (Single Har Vall) Sir10.10 +0.07 - Chart (Single Har Vall) Sir10.10 +0.07 - Chart (Single Har Vall) Sir10.10 +0.07 - Chart (Single Har Vall) Sir10.44 - -</td>	Carbonne Frank Montpers Intil Ltd (2) PD Rox 275, 45 La Viena S., Junny Guilla 1980can	Chart (Single Har Vall) Exrt2.17 - Chart (Single Har Vall) Sir10.10 +0.07 - Chart (Single Har Vall) Sir10.10 +0.07 - Chart (Single Har Vall) Sir10.10 +0.07 - Chart (Single Har Vall) Sir10.44 - -
	Garranger Family Starting0 92376 52375 481022 4.95 USB0 9581501 29.597 481020 4.95 Garranger4 50400 4.07 https://www.sci.org/abs/sci.org/sci.org/ https://www.sci.org/sci.	Latitic Age Cap (MV 8, M 21 412, 73 412, 740	LGT Asset Menagement Ltd MG 177 770 4587 Londen (123 642 7200 Heng Sen GT ASSMA	Anno	FLT. Stock Inv IF/L203 12.054 +1.057 - FLT. Daim Groups ISO.751 IF 0071 -4.1502 - FLT. Sco Pas IF4L708 SLB07-0.0508	Brand (155 \$11 414 12.067 +0.026 - N.A. Esally \$112.907 10.597 +0.026 - \$13.907 14.702 -0.026 -	STG MOTHY E1.0000 A GP	Lauworld Patancial Services Limited
					Falcon Market Fuer Pic Nov \$100.43 0.00	For Eastern 311.415 14.227 40.015 - Aggregative Diff 311.415 14.227 40.015 - Aggregative Diff		Harrison Barrison Barrison and States and St
	Startight Finisher 5 PLUSTR 44004 -01271 0.000 Startight Finisher 5 PLUSTR 44004 -01271 0.000 Startight Finisher 5 PLUSTR 1.0007 -02020 0.000 Start Guest 0 PLUSTR 1.0007 -02020 0.000 Start Guest 0 PLUSTR 1.0007 -02020 0.000 Start Start Guest 0 PLUSTR 1.0007 -02020 0.000 Start 1.0007 TLUSTR 1.0007 -02020 0.000 Start 1.0007 TLUSTR 1.0007 -00000 0.000 Start 1.0007 TLUSTR 1.0007 -00000 0.000 Start 1.0007 PLUSTR 1.0007 -00000 0.000 Start 1.0007 PLUSTR 1.0007 -00000 0.0000	Nicko Capital Magt (Europe) Ltd New Generatin Fd	ET AND A	0 (Kampa Lades. 4) 91261 +18 25	Frankington Investment Maret (Indand) Ltd	Davidees Del	Fri (1000) Fri (1000) L.4 Stri (1000) Fri (1000) L.4 Stri (1000) Fri (1000) L.4 Stri (1000) Fri (1000) L.4 Visio (1000) Fri (1000) L.4	Hertery Board Oct 30 5780.40 196.22 -0.40 Hertery Board Oct 30 528,00 30.45 Hert Money Mits Big 27278 +0.01 4.40
	4000 - 5 51320 41661 -00076 6.00 55 400 - 5 51320 41661 -00076 6.00	Paragon Ausut Management Ltd Pengen Car App Pe Lat. \$108.3150	80 Control State Control Contr	Destantamente Reserve. 0 -	Frank Reseal Investments (inclead) Life (s)	Partner 1 11273 11.4 +0.000 - Partner 1 112295 12.891 -0.027 - Partner 1 11128 11274 -0.045 -	Romb Silicity	Case Except Ferrors Int 121 + 60,97 -
			GTASS/MA SDUAL SLIT - LIB SA GTASS/MA SLAME - LIB SA GTASS/MA SLAME - LIB SA GTASS/MA STAME - LIB SA GTASS		Parting Same Equity	Higherd USS Approved _ \$12,727 12,415 +0,012 -	STE Gabil Darmery 51 1300 -0.000 2.44 Uning Magnition 3 51,0700 -0.000 2.44 W. Smith? Companies 51,0700 -0.000 2.000 North Averta 5 51,0200 -0.000 2.000 Lats Avancta 5 51,2200 -0.0100 2.000 Lats Avancta 5 51,2200 -0.0100 2.000 Bis Swalt Companies 5 1,2570 -0.0100 2.000 Bis Swalt Companies 5 1,2570 -0.0100 2.000 Bis Swalt Companies 5 1,2570 -0.0100 2.000 Bis Mith. 5 2,1570 -0.0100 2.000 Cathol Environ 5 2,14500 -0.000 0.000 Amp Ivery and Cathas 5 4,1520 -0.0000 0.000 Cathol Environ 5 4,1520 -0.0000 0.000 Cathol E	Averacity / Advect Wings Channels Link, 40 199,22 - 0.40 - Nerray Nami Oct 30 - 523,00 - 324,00 - 40 - Nerray Nami Oct 30 - 523,00 - 324,00 - 40 - Nerray Nami Oct 30 - 523,00 - 40 - 40 - Nerray Namional Inr Nat. 10 - 40 - Nerray Namional Inr Nat. 10 - 40 - Nat. America France, 122,253 127,24 - 0.83 - Nat. America France, 122,253 127,24 - 0.83 - Nat. America France, 122,253 127,24 - 0.82 - Nat. 124 - 12
	Kleizwert Besson haft Fil Magra Lid P0 Ber 44, Besning, Cl 01-481 709863/708662 Briefer	The sum of the second se	GT America A State Surger Surg		Frank Korea Panel BE.13 -0.55 -	Millimet USE Aggrounde \$12,729 \$14,853 =0,628 Millimet USE Statistical \$11,829 \$252 =0,822 = Millimet USE Statistical \$11,829 \$12,859 =0,815 = Millimet USE Statistical \$11,829 \$12,859 =0,815 = Millimet USE Statistical \$11,829 \$12,859 =0,815 = Millimet Z Statistical \$11,879 \$12,859 =0,817 = Millimet Z Statistical \$11,879 \$12,859 =0,877 =	Henry Acep and China. 5 \$1,1520 -0.000 1,00 Carding-full Brops	annerski, Olis Hes. Shra, Fd. inc.
	Fir Bar	Arronica Fund	ET Augsteller Sen Con A. 529.79 30,72 +0,47 6.04 ET Augstellen Sen Con A. 117.37 184.81 +0,04 0.0 ET Augstellen Sen Con B. 528.78 +0,47 0.0	0 Weiningen Trail4*2 Districts +0.000 1.46 0 Weiningen Trail4*2 21.875 +0.071 1.46 0 Weiningen Trail4*2 Physics +1.4 1.49 0 Weiningen Trail4*2 Physics +1.4 1.49 1 Weiningen Trail4*2 Physics +1.4 1.49	Fail Investment Management, Co (Europe) Lisk Flatto Shini Paul	SEC CAPIL Strategies Pic	International Part allow - classi Data Jame Service 1982-20 -classi Data -classi Data Jame Service 1974-20 -classi Data -classi Data -classi Data	Reation Find Hanagers (C) Ltd
	Chi 24 CALUE 16.065 -0.075 4.52 Chi Epudy Mc" 5 Statistic - 0.075 -0.075 4.52 In Succ 20 mc" 5 Statistic - 2.015 -0.015 -0.015 -0.015 Statistic - 0.015 Statistic - 2.015 -0.015 -0.015 -0.015 -0.015 Statistic - 0.015 Statistic - 0.015 -0.015 -0.015 -0.015 -0.015 Statistic - 0.015 Statistic - 0.015 -0.015 -0.015 -0.015 -0.015 Statistic - 0.015 Statistic - 0.015 -0.01	Lancing Field 07,973 -0.052 - Japan Park 07,973 -0.052 - Japan Saular Citt Park 99,977 -0.997	GT Australian Sco Con 6. 216.04 +0.04 0.0 ET Barry Japan A		Grand Banky Profit	Can Barranichi Ana Growth Fund Pic	Jopin 5 VH2.50 -3.600 0.000 Jacob Santh Campaina 5 7548.20 -1.600 0.000 6.76 Stanting Brad 5 57.000 -0.000 6.76 0.000 6.76 US Date Ford 8 71.0700 -4.69 0.000 4.76 Gatab Dock 3 \$1.4030 -0.000 4.76 Ven Eord	Corporation Monany Ltd
,	Nin American" \$ \$1,875 1,8702 44,000 0.52 Sizalogia znoatenany"_ \$ \$1,942 1,7357 -0.005 0.72 "Ofer price lockets of extension endoatenty stamps	Anotes: Conference 012141 -0.000 Anal Read 512144 -0.000 - Anal Read 512144 -0.000 - Entrops Fond CF.571 -0.000 - Appens State SF.574 -0.000 - Appens State SF.571 -0.000 - UK formiting: Car Flat SF.571 -0.000 - UK formiting: Car Flat SF.2514 -0.100 - UK formiting: Car Flat SF.2514 -0.100 - UK formiting: Car Flat SF.1234 -0.100 - UK formiting: Car Flat SF.1234 -0.100 - UK formiting: Car Flat SF.1234 -0.000 -	GT Berry Japan 8 \$22.50 -0.14 6.05 GT Berry Japan 8 \$51.60 -0.05 6.05 GT Humbridten 4 \$22.22 23.49 -0.22 2.34 GT Humbridten 4 \$22.22 23.49 -0.22 0.05 GT Humbridten 4 \$23.40 \$33.42 -0.23 0.05	Newformi Tall	Santa (s. Ania Santa Yang, Santa S	Same International Animal Pic	Ven Bond Pard Fant, 6 Expl.080 (200 5.05	hacilic Pand Car \$1
$F = e^{-\frac{1}{2}}$		Bibbit Egety Fertil	GT Australian San Can A. \$23,11 31,72 +0.47 60.0 GT Australian San Can A. \$23,71 +0.07 60.0 GT Australian San Can A. \$23,71 +0.07 60.0 GT Australian San Can A. \$20,81 \$13,85 -0.01 GT Australian San Can A. \$20,46 \$13,85 -0.01 GT Berry Algues A. \$12,84 \$13,95 -0.01 GT Berry Algues A. \$12,84 \$13,95 -0.02 0.01 GT Berry Algues A. \$22,95 -0.14 0.00 0.01 GT Berry Algues A. \$22,95 -0.02 0.02 0.02 GT Berry Algues A. \$22,95 -0.02 0.02 0.02 GT Berry Algues A. \$22,95 -0.02 0.02 0.02 GT Berry Algues A. \$22,97 -0.02 0.02 0.02 GT Berry Algues A. \$21,85 23,85 -0.02 0.02 GT Berry Algues A. \$21,85 23,85 -0.02 0.02 GT Berry Algues A. \$21,85 23,85 -0.02 0.02 GT Berry Algues A. \$21,85 23,17 -0.02 0.02 GT Berry Algues A. \$21,85 \$21,71 -0.02 0.02	Content (Ma Instantinuent Content Manham A.)	Frigit Instructivents Macangements (Cry (Carropet) Link Fille(C) Stated Aved ST(D):4 Cived State New ST(D):2 Cived State New ST(D):2 <tr< td=""><td>Adda Group</td><td>Language front (Channall Initianatin) 14400 300 John Gowell (Channall Initianatin) 144 (1500) All Hun, Soundle St. St Heller, Jacopy DISM 572220 All Hun, Soundle St. St Heller, Jacopy DISM 572220 Chang Stands (Hord Initianation) 142 (1898) Staffa Cast</td><td>Perpetual of Filinges (Jameer) Ltd Othere An Gett Filmers (Jameer) Ltd Othere An Gett Filmers (Jameer) Ltd Othere English Can. 22 (Jameer) 52728 Uthere Higher Filmer Filmer Filmer Othere Higher Filmer Filmer States (Jameer) Othere Higher Filmer Filmer (Jameer) Othere Higher Filmer (Jameer) Othere Higher Filmer (Jameer) Othere Higher Filmer, States (Jameer) Uthere Higher Filmer, States (Jameer) Uthere Higher Filmer, States (Jameer) Uthere Higher Filmer, States (Jameer) Uthere Higher Filmer, States (Jameer)</td></tr<>	Adda Group	Language front (Channall Initianatin) 14400 300 John Gowell (Channall Initianatin) 144 (1500) All Hun, Soundle St. St Heller, Jacopy DISM 572220 All Hun, Soundle St. St Heller, Jacopy DISM 572220 Chang Stands (Hord Initianation) 142 (1898) Staffa Cast	Perpetual of Filinges (Jameer) Ltd Othere An Gett Filmers (Jameer) Ltd Othere An Gett Filmers (Jameer) Ltd Othere English Can. 22 (Jameer) 52728 Uthere Higher Filmer Filmer Filmer Othere Higher Filmer Filmer States (Jameer) Othere Higher Filmer Filmer (Jameer) Othere Higher Filmer (Jameer) Othere Higher Filmer (Jameer) Othere Higher Filmer, States (Jameer) Uthere Higher Filmer, States (Jameer) Uthere Higher Filmer, States (Jameer) Uthere Higher Filmer, States (Jameer) Uthere Higher Filmer, States (Jameer)
	Lazard Fund tiloges (Channel Jakards) Ltd	Dt	GT Band A	Swinz (27a Izrobulanant Franci - Protecus (n) 1 Hattournauter Para, Dable 1 UK Excely 21.1250	Ann sant in the sant sant sant sant sant sant sant sant	Adventering E	Gebel Stock inv Lief Straty Grant Franking Sedim Cash	Distore ind Barge Fd
	Lazard Fond Minges (Classical Infondo) Ltd Santa Roma, La Trachat, St Peter Port 01407 724853 Lazard Infort Instituted Task 138 Bitted Addressment 1958 135 20 - 0.26	North Marian \$14,935 40,030	ET Sand B	Uil Storter D1 1000 Avantation Spring D1 2000 Avantation Spring Scrift 2000 Distancement Theory to Avantation Spring 1000 Scrift 2000 Distancement Theory to Avantation Spring 1000 Scrift 2000 Hard Description Spring 1000 Scrift 2000 Hard Description Spring 1000 Scrift 2000	SHE FORMULA FOR THE STATE STAT	IX France 1	For Seal Equity	Offician AntiSector Miles \$1,7315 1,8380
	III Active 5 F78.17 18.05 3.46 IVE Upped Accels 5 550.05 10.05 3.33 IVE Upped Accels 5 550.05 10.055 3.33 IVE Upped Accels 5 570.05 10.055 3.33	Bit Ford Interes 510,711 40,040 Gate Real Interes 511,755 40,000 Bit Other Control 510,713 40,000 Bit Other Control 510,713 40,000 String Control 510,000 40,001	BT Sampling Harrison A. ST7.14 15.04	Tourne \$1,500	Gobel Research Fel Pip. \$11.15 6.00 Forage Dichelop Fo Pic \$9.40	EL107 1.1652 (2001 - IK heater Tracher	11 Han Interne	Chalana Georgi Band Ago. 51.1939 1.2465
	Contraction 5 C1412 15.30 - 0.36 Contraction 5 C1217 15.00 - 0.36 Landon 5 C1217 15.00 - 0.36 Landon 5 C1217 15.00 - 0.36 Unit upped Amotion 5 C1217 15.00 - 0.16 Lange background 5 C1275 7.407 - 0.16 Japan Inder 5 C2765 7.307 - 0.26	Staffing Cash 210,100 +0.001		Austrian Saint Sai	For ST Aust My Statest Lik our Lift Aust My P.C.	Commercial (28	THE PROPERTY LANS INTO PARTY (121 LAND)	Jan Peringui stani Linikasi. Linda Bank kanadintai Linikasi.
	Lloyda Inti Macany Market Fund Ltd Sania Res. Le Transit, St. Pater Part 57481 724965	UK Gaptel Brown	61 544 544 648 A. 684 1433 4431 447	Hand Carrievay 60 H. St. Daint 27274	Gertmore Koree Pand Pic	5 Decolt	HI Sartool Fund Marce (Jay) Ltd (1000)F FV Box EX Aved Sime, St. Heint, Jamey Olds 804814 Strong By Vand. 5 5359 1453 -005 123 Calabar Strong Vand. 5 5359 1453 -005 123 He Sout Strong Vand. 5 Filling 1145 -016 123	Ner oc 25 \$7.34 = Royal lik of Scotland Fd Megrs (Jocary) Lid
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		For Control Structure £11440 -0.005 Structure Structure £11450 -0.055 Structure Structure 511450 -0.054 Structure Structure 510,056 -0.054 Structure Structure 510,056 -0.054 Structure Structure 511,057 -0.057 Structure Structure 511,057 -0.057 Structure 511,057 -0.057		Timery (seekand) Lid 2022 (comp Halat Street, Danies 2 00 3531 7505016	Histohii Furto-Asia Interationant Testina Silettin Con	Real Marcel (12 Marcel St. 105 1.2205 +8.0005 - Real Marcel (12 Jan	Starting (Managood) 2 C07782 38.30 -0.14 - Starting (P) 2 C07782 38.30 -0.14 - Starting (P) 2 S4.50 -0.14 - 3.47 Starting (P) 0 S44.51 - 3.47 - 3.47 Starting (P) 0 S44.51 - 3.47 - 3.47 Starting (P) 0 DMS1222 - 1.58 - 1.58	Royal lik of Scotland Fid Hages (Jocsey) Ltd her Graves Fanis
14	Averaging Dollar 9 4998,8000 44000 100 Constant Dollar 9 1253,8000 41000 21000 Constant Dollar 9 1253,8000 41000 21000 Dollar 1000 0 10000 41000 21000 Dollar 1000 0 10000 41000 21000 Dollar 1000 0 10000 41000 21000 Translations 0 10000 10000 41000 21000 Translations 0 10000 10000 10000 21000 Translations 0 10000 10000 10000 21000 Translations 0 10000 10000 10000 10000 Translations 10000 10000 10000 10000 10000 Translations 10000 100000 100000 100000 100000 Translations 10000 100000 100000 100000 100000 Translations 100000 1000000 1000000 1000000 1000000 Translations 10000000000000 1000000000000	Series Frank Calibration SPTULING		15 Ma Cap	Gabai Resources Stock Road	Scottish, Aaskabbs Estapens/Tubernations Advantures (Officienty States	lawa Galacha Malo Lui, 810.79 11.33
14	Darksteining Die Met 2200 -65/78 1/61 Die Statistick Die Met 2200 -65/78 1/61 Ferth Barne Exckl 4/81 -61/78 1/61 Ferth Barne Exckl 4/81 -61/78 1/61 Ferth Barne Exckl 4/81 -61/78 1/61 Ferth Barne - 1/2012/100 -61/78 1/61 New Zamand Inder 4 - 1/2012/100 -61/78 1/61 New Zamand Inder 4 - 1/2012/100 -61/78 1/61 1/61 New Zamand Inder 4 - 1/2012/100 -61/78 1/61 1/6	Royal Renk of Canada but Money Markst Fd Merry Welst Pre-	67 dist Site 4 -0.02 7 dist 57 dist 5 Site 5 -0.02 7 dist 57 dist 5 <t< td=""><td>IRELAND</td><td>Goldman Sachs USS Lipski Reserves (d). \$1.00 1.33</td><td>Destacher Partiers</td><td></td><td></td></t<>	IRELAND	Goldman Sachs USS Lipski Reserves (d). \$1.00 1.33	Destacher Partiers		
a the state	Jahnsee Yon ()	163 Accum Cane 51,075 4.98 163 Datab Chen 51,0752 4.94 164 Accum Cane 51,0752 4.94 164 Accum Cane 51,0752 3.92 165 Accum Cane 51,0752 5.97	GT Harden Palletines 516.27 18.32 -0.03 0.02 57 Harden Palletines 516.27 18.32 -0.03 0.02 57 Harden Palletines 516.28 1.57 -0.02 0.00	(REGULATED)(**)	Garcing House Assoc Housepement Ltd Gordon House Optimiz. 26.45	Socials Michael Ing Fand Monagers Ltd (K Saudy 2	European 4 CLIGE 11,04 CD 000 For European 4 ST/01 T7,01 -0.15 0.20 Horn Australian 6 SLS 5 10,21 -0.11 0.00 Horn Australian 4 F10,23 10,21 -0.11 0.00	156 Found Managers (27) 1.1d 158 Interd Practice
	Nor 2 minuted Totaling	Instrument Chillipit <	61 Harmin Patistan 0 2541 -0.03 0.00 S7 mater Sand Cart_ 52.71 2.35 -0.05 0.20	Salling Saylay +27 Yati Paul Pina - Shan	ESEC OK Equity Plas Pla	Cattal David S	Lingels (Janek (C2) U/T Migrs. Po Soc 165. St. Heller, January 01654 2642472 Lingels Tat. Gitt	MMB Asset Managements (Jacasy) Ltd Ma3055 Market New Assess \$1000.47
	Series (Janut 4	Set Access Case SY11235 0.71 Set Access Case SY11235 0.71 Set David Case David Case 0.71 David Case Y1 0073 0.00	(7 ada 2mil Cu 2. \$1.20 -4.05 0.00 (7 inter trait Cu 2. \$1.20 -4.05 0.00 (7 inter trait Cu 2. \$1.20 -4.05 0.00	All Fund Management Lid	Shermania Middle 4 Rans. Mi	State and a state of the state		Hand Street Million and Street State
	Managad Sharing	Dial Class Dial 1163 2.30 Yim Annua Class Y1 0073 8.00 Yim Danis Class Y1 0073 8.00 Yim Danis Class Y1 0073 8.00	GT Japan DTC Stocks A. 23.92 623 -0.07 0.00 67 Japan DTC Stocks A. 23.92 623 -0.07 0.00 67 Japan DTC Stocks A. 58.36 -0.02 0.00	All Andrei Annie 1988 Tract Haberlin Fund Chi Managad Cassange 1987, 499 22 1087		2019 Billing SF(1) - SF(2) SF(2) SF(2) -	Midland Bank Fund Managers (Jerney) Ltd PO Borzs, Si Heler, Jacory 8154 80600 et Disan Politike 34, gr.4411 1.5172 -0.0055 1.32 89	Antikinet (naimegari) Jariney Lini Antikinet (naimegari) Jariney Lini Stahle Galad Eng Mass 49.87 Stahle Galad Eng Mass 49.87 Stahle Shi Shahler (naimegari) Jarine (naimegari) Stahle Shi Shahler (naimegari) Jarine (naimegari) Stahle Shi Shahler (naimegari) Jarine (naimegari) Stahle Shi Shahler (naimegari)
	Duning daily			a strange and distance	·····		3 BARN 1.0064 +6321 6.65	Bitting untelig. " Mentings. ? Hettennings.

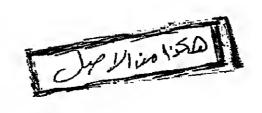
28

 \star

FINANCIAL TIMES WEDNESDAY NOVEMBER 6 1996

·····

Offshore Funds and Insurances FT MANAGED FUNDS SERVICE • FT Otyline Unit Trust Prices are available over the telephone. Call the FT Otyline Help Desk on (+44 171) 873 4378 for more details.	.		-
Instant Sealty Struct Struct <th< th=""><th></th><th></th><th></th></th<>			
Cold Profile Cold Profile<			
Betry flux NW Bits Profile			
	- # -	;	
Global Liabershamil Hole, URX2.g7 4015 FBC Encode frame Global Liabershamil Hole, URX2.g7 4016 FBC Encode frame Global Liabershamil Hole, URX2.g7 4016 FBC Encode frame S10.00 III of Hole (URX2.g7) S10.00 IIII of Hole (URX2.g7) S10.00 IIIII of Hole (URX2.g7) S10.00 IIIII of Hole (URX2.g7) S10.00 IIIIIII of Hole (URX2			
B&li Asset Management Lidi Andre Cos & FSite 0 = 012 - Control Cos & FSite 0 = 012 -		·	
Back Voil Small Clip AG Subtry Fault F12 00 Subtry Fault Sub			
Strategy Factor (************************************	.	÷	
Global Book DV Stort Fight	4	1	
Bits in a construction in the state of the stat			
CMI Asset Management (Laxembeurg) SA Gata Townshorg 100 - Print Early 2 5307 data 023 - State 100 - State 200 data 1000 data 100			
Data (Backa) former find (4) PTO (Backa) former find (4) <		2013 1	·
Lab Assessed Fundar Control Number 2010 0 20 Assessed Fundar Control Number 20		5.7	
Jacores Bord Viels 1 100 2509 Columb Control 1 Coll	•	, . 	
If Conversion Score is Status			·
Compersitive Contraction State	. :	· :' :	• · · ·
If a lattern Letter, 5141 1923 - Kom thin forticle, 5153 204 -0.12 - Barlow lineary, 5173 1 - Fille	محديد فديعت		
Data Ferrer Ac. Fred 101, Ferr	a de velo de como de c	• . • • • •	· · · ·
Press (mm) in Parts (7) 75 + 4 (7) 0.75 Clip (1) 0.75	•		
Interviewent Control frame Control f		· · ·	· • • • • • • • • • • • • • • • • • • •
Cost form Add Cost form Add <thcost add<="" form="" th=""> <thcost add<="" form="" t<="" th=""><th></th><th>••••</th><th>· · · · · · · · · · · · · · · · · · ·</th></thcost></thcost>		••••	· · · · · · · · · · · · · · · · · · ·
Construction Construction<	A. P.		*,
		•	
Fided (-1-10) (LownTaker, m. 00.352 342/101) Actual Information (m. 102) Actual Information (•	 •	
Autor Y112 - Exercise Roote X123 Y123 - Exercise Roote X123 Y124 - Construction Recrete Roote Y124 - Construction Roote		 	-
Lungehan (an Con Fr. Br. 15 or - 100 - Late sharpertain. 51 // 0.00 0.00 Deconstruct bench. 51 // 0.00 Deconstruct beconstruct			



• .-

٠.

1.14

4

181

.

• • •

. . ·_ · . .

22.1

.-----

: : :

 $\geq \pi$

-

1. A.M. 1. A. ور برمیشور مر .

.

10.6 (in: 2 2 7

.

· · ·

1.00

× ••••

.

			•	•				n na haran an a
	FINANCIAL TIMES	WEDNESDAY NOV	EMBER 6 1996					29
					FUNDS SER	VICE	Offshor	e insurances and Other Funds
24: - 44: 	Photo and the second seco	Anna Anna Anna		fall Suffag Suffag - M Dies Falle		-		Yada Badhay Baylay sor Yaki Barran Paka Yaka - Bara
	Cici Martural International - Contol. State Prop Enciente. 57 202 7765 State Inde Martural. 50 201 127 State Index State Inde Institute Institu	Applies ("Hand Hamagadanyer) Lad Apta Environ Sep 30	Coast Asset Management Corporation - Coast Section 111. 11 3003 Sec - Columbus Asset Management Lad - Induced Section	Gaia Carrany Funds - Cala International State State State - Gaia State Carray Tunner State State - Gaia State State - Ga	hocia investment AC - No or 30	Loyd George Management - U.S. Advance & Lastren 1 & 17.84 - 4.S. Advance & Lastren 1 & 17.84 - 4.S. Advance & March 1 & 17.86 - 4.S. Advance & March 1 & 19.87 - 4.S. Advance & 1 & 19.84 - 5.S.	ORDERT Growth Fd - Nov	Smith Barney Funds • tenserbetwik (1944 - 536275 telefaberer (1846 - 514,99
	Lined Futures (Sep 36, 1735) Cined Futures (Mr. 90, 81, 573) Cined Futures (Mr. 90, 81, 574) Cined Futures (Mr. 900) Status (Mr. 900)	Alden Hollips Chairs 5 Aug 51. 5124 25	India	Emmines Family (a) (c) (c) 25000 Emmines Family (c) (c) (c) 25000 Emmines Family (c)	6 - Indian Opportunities Fund Lini - Onlony Do 30 - St. 16 8.40 -	- Lioyds Bank Greenwant Bonds	200 Orion Capital Advisors Ltd 200 Orion Capital Advisors Ltd Cryx Field Ltd Oryx Field Ltd Oryx (mdl) Fuel Ltd Oryx (mdl) Fuel Ltd Mer Star	Sodific Asset Management for Apric Grid 13125 1 Sold Bust 3546.50 1 SAN Dreaded 3747.22 1 San Dreade 3747.22 1 Grid Dreade 3783.85 1 EXAM Dreade 3783.85 1 EXAM Dreade 3783.85 1
		A Burthington Son Str	Craig Drift Capitol Ltd New Arg 37	Capacit Headpo Unit 21 — St. 17 404 — 4400 Final Law Lab (20 - 20 - 27 - 17 47 - 4400 Exercic Law Lab (20 - 27 - 17 47 - 4400 Exercic Law Lab (20 - 27 - 17 47 - 4400 Exercic Law Law Lab Exercic Law Lab Exercic		Lights chain, sign maintain (canners) i Light Annich Pertains Balancid Manasta Nat. \$10.84 17.19 MBF Dist Treat Managers Limited MFF World Granth	Oryx Informational Growth Fund List W Fully Diana So St. 11 PFC Internet: Particula Fd Marsh List	Construction Construction<
	5 YRA Wooldwide	Constanting Wine (6) and 37. ST 72.58 Constanting Wine (6) and 37. ST 72.58 Constanting Wine (6) and 37. ST 72.58 Minisphere Wine (7) and 37. ST 72.58 Constanting Wine (7) and 37. ST 72.59 Constanting Wine (7) and 37. Constant	Control Arristical First Arristical Control Arristical First Arristical Dis France-insumational Strate Arristical First Arristical Example Strate Strate Arristical First Arristical Cost Arristical Strate Arristical Strate Arristical First Arristical Cost Arristical Strate Arristical Strate Arristical Strate Arristical <th>Gertis Management Lut Exer Products 14 20 Da \$1,844.35 Tent Products 14 21 Da \$1,874.35 Bens Polyment 14 0 T & \$1572.70 Gerty Resist F4 0 T & \$1572.70 Gerty Resist F4 0 T & \$1572.70</th> <th>- 100 (control (15 (cd.2)) 610.20 -0.17 Saminated 04 20 - 576.05 -4.17</th> <th>- Ville Vetaera Porticia _ 5732 1.22 - Mille Puzille Estantata _ 5732 1.22 - Nille Puzille Estantata _ 5830 9.00</th> <th>Sectimit General Polic, 24.52 - Reference General Fol - Station of General Fol - Station of General Fol - WELLIGZ & Print, Mail - WELLIGZ & P</th> <th>- Solaer Capital its: - tai Yange Oct 30 3270.38 - Aniel Helia Oct 30 3380.01 Amietan Datert Oct 30 - \$21.39</th>	Gertis Management Lut Exer Products 14 20 Da \$1,844.35 Tent Products 14 21 Da \$1,874.35 Bens Polyment 14 0 T & \$1572.70 Gerty Resist F4 0 T & \$1572.70 Gerty Resist F4 0 T & \$1572.70	- 100 (control (15 (cd.2)) 610.20 -0.17 Saminated 04 20 - 576.05 -4.17	- Ville Vetaera Porticia _ 5732 1.22 - Mille Puzille Estantata _ 5732 1.22 - Nille Puzille Estantata _ 5830 9.00	Sectimit General Polic, 24.52 - Reference General Fol - Station of General Fol - Station of General Fol - WELLIGZ & Print, Mail - WELLIGZ & P	- Solaer Capital its: - tai Yange Oct 30 3270.38 - Aniel Helia Oct 30 3380.01 Amietan Datert Oct 30 - \$21.39
	Parlimolifs coclets anonyme	Hatter Practor Clean State Stat	Comparing and a second se	- Genesis Fund Managers Ltd Cale Is and to the South State Economy Man Oct State State State Manager Man Oct State State Outer Fd Oct State Outer Fd Oct State Conder Fd Oct State	- University Value which The Value of Party	The MC Docale Fund LP MC Cor 22	Anatar Conventional Ltd Anatar Annual Ltd Anatar Annu	The Southeaut Join Frontier Fund (SEAFF) Production Fund Automaticity Southeauticity Southeauticity Southeauticity Southeauticity Southeauticity Southeauticity Southeauticity Southeauticity
	Protect Reservices Lowersberg 00 352 45073 Control Repartment Oct 30 Printfor7.346 -71.25 Octave Repartment Oct 30 Printfor7.346 -71.25 Octave Repartment Oct 30 Printfor7.346 -71.25 UK Server (20.061.26) - 0722 - 718.05 UK Server (20.061.26) - 0722 - 718.05 UK Server (20.061.26) - 0722 Family of Factor Oct 30 Exervices - 157 Family of Factor Oct 30 Exervices - 158 Protection Libbo 1. https://www.control.com/ 1. https://www.control	Art Investment Company Ltd Debetor Private Private For Johnt for Myni List nor Repton Durin Parison	SHE Paintman String 27 (0),27 Schema String 27 (0),27 Book Hale SHE String 20 (0),27 Convert Main SHE String 20 (0),27	For This Say Sansati any Maria For Conjust SI, ang Darly sursisch Gländer Amerik Maring Association Other Panale	Technyczi filośnic Associa Lid Lad Bennycz	Cantar lactors	A 1775 Albeite ISC Deceded Stille	- MW/Oct 61 F4.50 State Street Energie SA - Action Fance FFrt219.20
	Developed Country, F. Fd. £1 17 1.27	Arabacid and S. Hejohronics, hc. Anto Consulta-Can A. Fig220.50 Anthemating Studies, 2003.51 Berlin Review Str. Dans A. Striction.	Cristit Agricols Group/Sugaspar Grant Way (do St) 272-41 Brant Way (document filt Scrift Strift Grant Way (Document all Strift Strift) Cristit Lymancia and Strift Lanet How Strift Late (12)	GAU Addings	Technical Frank	Liservet Materiev	Pits Bond Brund L	Activity Extension
	Professional Instatuted Consultant	Bind Bounge-Care A STERAS Bind Bounge-Care A STERAS Bind Bounge-Care A STERAS Aster Pacific Capital Strangers Fund More Care A Start A St	- Ast-Forth Seven-SSII (7) 4 4 4 - Seven Gover, SSI 20 (2) 4 4 - Redow Gover, SSI 22 (2) 4 - Redow Gover, SSI 22 (2) 7 - Redow G	- 644 Soci US Special . SCOLD	INVESCO Assail (Hernagersen) Index Brown Free Ltd., 62,57 918 -0.43 The Jagtite Frend LLV, NW Oct 51	Far Mayshin Bay Max Mgr an Tayan Capital Magnaria Panda Magnaria Panda Magnaria Ang Gari San 30 5124.57 125.51 Magnaria Santi San 30 - Sana 11 112.51 Magnaria Santi San 30 - Sana 11 112.51 Magnaria Mati San 30 - Sana 11 112.51	Damery Feld Land Style Style Style Denergy Veld Fill Land Style State Denergy Veld Fill Land Style Disk Denergy Veld Field Lal, 2004.0222 Oral	HW Aug 51
	Call the Astrony International Constraints Call the Astrony Manufact 2024 C 0.44 Particle Las 8 - 57.40 0.44 Pressive Las 8 - 57.40 0.44 Pressive Las 8 - 57.138 1.44 Pressive Las 8	For Additional Constants are input Anti-Pacific Antine Compared Blass & Income Fd (Coryment) INV Oct 24	Crossly Asset Bitmagnersent List Anti Vann an Bit Ag 20 Sol 20	- Unit Marking	- Jack and Character of the Course of the Co	Klapterte Fenda Kapterte Fenda Kapterte Fenda Kapterte Fenda Kapterte Standard Standard Kapterte Standard Kaptere Standard Kapterte Standard	Partier Fina 84.95 Partier Capital Advisors Patter Fina Capital Advisors Patter Fina Capital Linited Phark Place Capital Linited	Infinity Invested Ltd 84770 Sovider Bank Conjunction Industrial tage Value Strates Analyticate 2285 18 Analyticate 2285 18 Analyticate 2573 18 Outrivide 5573 18 Distribution 1513 28 Distribution 1513 28
	Royal Life Satercardional Royal Caut. Arboy Re, Cantesone KM Partice Caut. Arboy Re, Cantesone KM Partice Caut. A Part Count. Status Part Count. Status Royal Life KM See Ref. 2222 2,000 Royal Life KM See Ref. 21,002 2,000 Royal Life KM See Ref. 21,000 Royal Life KM See Ref. 2	Annato Japan Berte Statisters St. 46	Crystal Find Stanapors Ltd Crystal Find Stanapors Ltd Crystal (001 15	GAN Service Frank Strike Strik		Hagets Assail, Management – UK Dehr Fard Las	Pin Part to 366 r 00:30 333.8736	Deterministration - F123.90
	Toyle Line (Conc.) 11.21/0 11.21/0 11.21/0 Toyle Line (Conc.) 11.21/0 11.21/0 11.21/0 Toyle Line (Conc.) 11.21/0 12.20/0 11.21/0 Toyle Line (Conc.) 11.21/0 12.21/0 12.21/0 Yong S Concerning For (Conc.) 11.21/0 12.21/0 12.21/0 Yong S Concerning For (Conc.) 11.21/0 12.21/0 12.21/0 SAM 2 31.227 31.227 12.20/0	Annu Mati-Praci Sala Sala Si Si Di Annu Mati-Praci Sala Sala Si Di Annu Mati-Praci Sala Sala Si Di Annu Mati Sala Sala Sala Sala Sala Sala Sala Sal	Declam investigant Trans Co Lid Arrow Train We have 5	GAN Techny USC. Diviti 148 GAN Techny USC. Diviti 148 GAN Techny USC. Stollard GAN Techny USC. Stollard GAN USC		Molegnia Fixed (Lubuan) Molegnia Front Fixed Molegnia Growth Fixed Molegnia Growth Fixed Molegnia Growth Fixed E D & F Mass Investment Products	Person Technology Offebers Fund Inc. 1997 Pers Select Group of Panda Limited Part 2000	Tobustorium
	2.4.84.4 In Spart Hubit Spart Park Surfarg Matter Statistics 51.355 1.457 Data Matter Matter 51.355 1.457 RU, Neuron Parkan U, Dealer Manachartha 51.351 2.136 U, Dealer Manachartha 51.315 1.136 U, Dealer Manachartha 51.315 1.136	Appendix (String) and (String) 10, 5100.34 Appendix (String) and (String) 1700.44 Building (String) 10, 570.36 Anadox Dark (String) 170.36 Anadox Dark (String) 170.36 String Anadox New Coll, 5, 64.20 String Datased NeW String 1, 54.20 String Datased NeW String 1, 54.20 Stri	Devine Calue Go Del 20 82.14 Sinda See Clo Julie 23 877.54 Delawa APT Japan Fund Devine APT Japan Fund Devine APT Japan Fund Devine Loid Capillal Namagament (HLK.) List	CAMerica Construction Const	Jampi 1000 Jampi 100	Lord Linkson and Construction (Construction) Lord Linkson and Construction (Construction) Lord Construction	Phoenic Four, Inc. 1993 Sep 30	Vicensifier Guessien, Brits 13 lie Annue Foul
	Vendo Pedravence Garling. 19.546 10.566	R22W Tweedoment Histogenment (BIC) Led Tehma heles Fan La Hoter Hele,	Denne Andre inv Oz. 511120 - 10211 Denne Andre inv Oz. 5111220 - 1021 Denne Andre inv Oz. 51. 512272 27	Control	J Annough Trat	Athene Brit Dar Lal Bull Athene Brit Press Ltd and ST8.57 Athene Brit Press Ltd and ST8.57 Athene Brit Press ST8.57 Athene Brit Press ST8.57 ST8.57 ST8.57	For Prints Asset Mant no Pana, DW Fand The Prints Classic Particilie chinks Managed Panals Assessment Assessment Balance	Severations of Content and Content and Tableton American Food Limitant New Yoo 1
	Royal Staardin Like Assessmen List (c) (1200) Statistic ites, Fach RJ, Dogda, Kild Charlos Status Ng, C, 1233 - 1733 - 0.001 E Balanced Barley Ng/L - (1264 - 1723 - 0.001 E Agencia Rava (s), 51 221 - 1724 - 0.001 E Charlos Carecas Fight, 11-01 - 1205 - 0.001 E Database Galaxies Fight, 21-01 - 1205 - 0.001 E Balanced Barley Status - 17-021 - 0.005 E Balanced Barley Status - 17-021 - 0.005	Star Michael and Star () Star () Row Make & Star () Star () Julius Brane Rank & Time Co Lisi Lightner SCOM 2557 Bar Model Rout SCOM 2557	Derine Houtsch Group Diff Mandale Portfolo	- Considering Hand Samera A. 112.51	Janimary Territory 1010 1224 - 404 - Fibria Constraint St. 17444 1449 - 401 - Fibria Constraint St. 17444 1449 - 401 - Fibria Constraint St. 17454 - 402 - Fibria Statut Statut - 17455 - 402 - Fibriand Statut - 17455 - 1024 - 401 - Fibriand Statut - 17455 - 1024 - 401 - Fibriand Statut - 17458 - 1024 - 401 - Fibriand Statut - 17458 - 1024 - 401 - Fibriand Statut - 17458 - 1024 - 401	- A42 Correctly	Agrowine \$6.53	Templation Collectits & Hanabarger Lal Coloris for
	Endeared Datasure 51/21 1/32 -0.001 Explanated Datasure 51/21 1/32 -0.005 Explanated Datasure F1/32 -0.001 -0.005 Explanated Science F1/32 -0.001 -0.005 Explanated Network F1/32 -0.001 -0.005 Explanated Network F1/32 -0.001 -0.005 Explanated Network F1/32 -0.002 -0.002 Explanated Network F1/32 -0.002 -0.003 Explanated Network F1/32 -0.002 - Explanated Network F1/32 -0.002 - Explanated Network F1/32 - - Explanated Network F1/32 - - Explanated Network F1/32 - - Explanate F1/32 - - Explanate F1/32 - - Explanate F1/32 - - Explanate F1/32 - -	Endly Stamm	Latin American Say 30 - 530.44 Writhwith Kinam Say 30 - 511.402		- Jahr Graft Pate _ Big	ADD Art Balter Stating S1070	Professional Investment Consultants List Internetical Agreedent, 6637, 10,57 Internetical Agreedent, 6637, 17,55 Internetical Delaytics, FTDAS, 17,55 Internetics, FTDAS, 17,55 Int	The Thailand Fund The Thailand Fund The Thailand Fund The Thailand Fund The Thailand Based Fund The Thailand Based Fund The Thailand Fund
د هوه میش د هوه میش 	E Darinal P. Bukhing Sachery	Dees - Sentim Series 3004310224 Dees - Sentim Series 37218,20079 Reno Internacional Il/Andores Banca Hera Ander Pae - Patistic 20051 and Ander Sede Use - 513,2008 - Ander Sede Use - 513,2008 -	Stanson fue 00:31	-	LP FILL	Las tut constant	Promote Jones of star, 50.05 Prospector Fund Management Ltd Prospector Fund Management Ltd Prospector Fund Management Clip Prospector Management (Clip)	The Tupiland Leff Fuel Ltd - Tubly Internation Lif Mar No 1 \$\$2.28 - Themps Carrency Fuels Tumn Car Fuel Op 50. 96 16 Tumn Car Fuel Op 50. 96 16
	8 Dependent Sin 2011	And End Usin 778 15.2008 And End Usin 771 1513 And End Usin 771 1513 And Equation 781 2520 And Equation First stop And Enarginal 81.2228 And Enarginal 81.2228 And Enarginal 91.184.508 And Enarginal 91.184.508 And Enarginal 91.184.508 And Enarginal 91.184.5141 Back of America	OF-Anthr Insuranting, Child LAV 74.139 Exception Control Cont	THE C	ARE GAP	Mathit Das purset for Dass C. 2004.197765 Cas Survert for Dass D. 21550.231053 Das Survert for Dass E. 21680.140784 Das Survert for Dass E. 21680.140784 Dass Dass for Dass E. 2162.25010 Dass for Darset Fund	France Raws by: US late (11.87 1.80 France Raws by: US late (11.87 1.80 France Raws by: US late (11.87 1.80 France Raws and the state of the sta	Thermino Investinged Management Liel ASSAN Counts
	SAM 0 Yen 112000 125:00 +0.014 1 Hoftmain 12:351 2.651 +0.022 0r5 Saming 11.060 1.120 -0.022 0r5 Saming 11.060 1.22 -0.019 UK Ecrab Wolmwith Min 11.130 1.222 -0.019 Argent 12:45 2.654 -0.033 Abbuman Revenue 12:456 -0.035 Abbuman Revenue 12:456 -0.035 Abbuman Revenue 12:456 -0.035 Abbuman Revenue 12:00 -0.056 -0.004	Made United Family Agrowthe Still, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	Denter Sun Annu Hardparten Diff-Las Sun Sun Annu Artic 24 106.45 Diff-Las Cash Ont Birlin 24 106.45 Diff-Las Cash Ont			Manat Sive Fernil Lipi Linguis Sank Ferni Hanagara (Internet) Lipi Hill Sank Siller Sill Si	US Bowinstead A	Distanti ani Fand
	SOM Endet	Constant Guidy Grand, Cry 2017 Charle Govern, St. 1794 Burth Norriss Romany, St. 2027 Bunk Van Grand & Clar AG Carrier from Carl Stranger 177 (2029) Carl Gard Carl Stranger 177 (2029) Carl Gard Carl Stranger 177 (2019) Charles Ref Annah 2019 (2014) Charles Ref Annah 2014	Hannan Cambor Star 20. 877313 Overski Francess Page 30. 32488.73 For Deventy Linguistic Lagrands Ford Hilds Country on the Linguistic Link Hilds Country on Ham Linguistic Star 2013. 2000	Over one million people	APPEAL are living with cancer in Britain be number is proving.	1 dage Pic Hoge W DBCG B Lawreydd Carllegu W DBCD B Par Bollon Fill DBCB C DF An Bh Fei W DBC B Agae Dhamas Fill DBC C Dron Bh Fei W DB	Up Orach Burupe Ltd \$16.35 -0.03 Pathana Burupe Ltd \$45.51 -0.55 Barty Min Sul \$45.51 -0.55 Barty Min Sul \$47.00 \$47.00 High Min Min (2) \$7.00 \$44.51 High Min Min (2) \$7.40 \$44.51 Barty Min Min (2) \$7.40 \$44.51 Barty Min Min (2) \$7.40 \$44.51	SN Lanst 521/6 +0.01 Their and an analysis 516.69 +0.70 Making and analysis 526.25 +0.108 Individual analysis 527.24 +0.04 Strategy analysis 527.24 +0.017 Strategy analysis 527.24 +0.017 Strategy analysis 527.24 +0.017 Strate analysis 527.24 +0.017 Strate analysis 527.24 +0.017 Hong Ring analysis 527.45 -0.06 Fortige 557.45 -0.05
2010) 1910	Scottisch Equilipble internetional SA 24-38 Place de la Gara, L-1616 Les. 00 352 4616611 Les Canel Communication (Communication) Les Reput Internet (Communication) les Reput Internet (Communication)	Begen Fr Serv & Cz/Europy for High Ltd Prefer Benging Ministra Infinite Final Lith An Case 30 State AL Sey 30 Bind Class A Sey 30 Bind Sey 30 <th>Bill Emilera Harby A Remaining & SA Tani Ner A</th> <th>We need 150 more an to bring their unique car</th> <th>rses before the end of this year as and relief to many more patients. interest. (1 in 3 of us get cancer).</th> <th>Non Bar Portain, 30.00 Date Acres Portain Carren Darron</th> <th>Quantum Broup Destant Of 1</th> <th>International State 556,73 +0.07 Prilippiner 556,73 +0.42 Theretics Tahman Fund 516,82 - Flags \$16,42 - Them Match management \$16,42 - Them Capital Management \$10,93 100.04 Them Match management \$10,93 100.04</th>	Bill Emilera Harby A Remaining & SA Tani Ner A	We need 150 more an to bring their unique car	rses before the end of this year as and relief to many more patients. interest. (1 in 3 of us get cancer).	Non Bar Portain, 30.00 Date Acres Portain Carren Darron	Quantum Broup Destant Of 1	International State 556,73 +0.07 Prilippiner 556,73 +0.42 Theretics Tahman Fund 516,82 - Flags \$16,42 - Them Match management \$16,42 - Them Capital Management \$10,93 100.04 Them Match management \$10,93 100.04
	Botal (3)	Barleg fatorrations Strong Prom For KW Nor 1	East Encope Development Final Ltd Network Bis Not and L. 550.1370			Class E	Dackin Oct 31 5448_27 4648.27 4648.27 4648.27 410.76 Dackin Kell Oct 31 577 7	Titan Franz \$725.77 725.77 Corrency Ponting
	2 Saving Reserve	The Its functions \$11.01	Egenten European Egelty Fond Lid 1949 Co.St Deret.20 Encort Limited Denete Conceptentia. 940.38 1003.54 +10.35 Europing Marticle Management	- My card sumber is Signature		Handi Look Berlan Inner Datar Casa A	RAW Management Ltd - NAN Others S	Tradeventifies Processing Comparations Tradeventifies Bearying Date Trans Elocat Proceeds Group PFR Fund Stampures (Justice) Trans Caloue Tradeventifies Trans Caloue Tradeventifies Tradeventifi
	C Opportunity	Bude & Co (Reccussic) Linebol Performental-tampheta \$10,00 Budgenee Capital Hanapanent Lid Coater Capital Manapanent Lid Coater Capital Norman \$10,4740	Emery Main Start Got 55., 5201.530.05 Luft Are Brokes Say 37., 537.24 Enlipting Investments List - Carystan Digan Densitie Say 39., 550.01 - Factors and Say 30	Caroer Refer Macmillan Press cont Rept.	a to support people with cancer and socie fattalies. Charley No. 201017	Hinry III Lynch Gamzanny Hannahn Cap HW Kin I, 872,40 Killiouxdwn Asset Harmysenard Jahar Jan Kind Lawray, Britter, 55 Milliouxdwn Asset Harmysenard Sal Salad Camay Lawrys St06537 Sal Canat Lawryse, St7052,55 Sal Canat Lawryse, St7052,55 Sal Canat Lawryse, St7052,55 Sal Canat Lawryse, St7052,55 Sal Canat Lawryse, St7052,55	Base Type Terrationer CD 134. \$18.51	Trigone Capital Fisuero SA Magnae Encepta Mae 2787.93 819.45 Waye Mangacat
-	Stater,	Andry - Saher Fri	The Environmental Impactment Co Unit Ecolo Fore Hampeons 111 Hari Co 21	Global Asset Monagement - Costs. 448 Manager Particle Heraper Particle Boal Cof Registrant Parts Cal Cof Registrant Parts Col Cof Registrant - Strikt.co Oral Cof Angle	Jandine Flanking Unit Treasts Ltd Control. J. Flankin Inscrimted Meter Review Hora Korg loss Star Fard STL 47 40.11 Triage Units Sch Fard STL 47 40.11 Triage Units Sch Fard 38.50 054 Date Sach Fard 38.51 7 Yes Ang Fard 38.51 7 Yes Ang Fard 38.54 7 Yes Ang Fard 39.54 7 Yes Ang Fard 39.54 9.057 Yes Ang Fard 31.54 9.057 Yes Ang Fard 31.54 9.057 Yes Ang Fard 31.54 9.057 Yes Ang Fard 31.54 9.057 Yes Ang Fard 31.55 9.057 Yes Ang Fard 31.557 Yes Ang F	Mar Oct \$1	Product to repay to 0.2 cf. bit 100 mm Product to 2.2 cf. bit 100	Life Bund \$100,29 +0.00 - UBG IST Fourty \$100,24 +0.35 - UBG Istreamton \$100,74 -0.32 - UBG Istreamton \$2,07 - - UBG Istreamton \$2,07 - 10,66 Tame Cartering Rate \$2,07 - 10,66 UBUG Scheme Fund Lid 50,07 - 11,66
	Comparison of the first sector of the	Anni Ya Super Bandya San San San San San San San San San Sa	Stallings (in Song Fo	State Support Funds 611.82 -0.04 GMA Antin Capital	Linded imme family *	Housevertain Annes Hyperk Housevertain Annes Hyperk Housevertain Annes Hyperk Housevertain Annes Hyperk Housevertain Annes Housevertain	Regent Kingpin Cepital Management Ltd - Casco Value at 27 - 0.10 - Eastern Emperation 511.48 - 0.15 - International Management 10.27	Ford Advices Life 20. 01052.64 Uther Chines Fixed Ford Advices Life 20. 011555.40 Read Advices Life 20. 011555.40 Uther Reverses Fixed
	LSS Comme were bind for a slow 1.040 -0.001 - LSS Comme were bind for a slow 1.040 -0.001 - Call Descoil	(Al Par 4 E130 for Derlin an Irolani (Fogelsia) Romdetta VintaFami	Erning Well-Print, Burris, Bur	Gen and Arnets Status	Frankrik (1997) H. STOLIS Jan Del Leman M. Stolis Jan	 Interp Nutriens Sup 20	Report Flagment Calls Water Found Kell (20: 22) Tanger Rev Cox 22: Status Reported Calls Reported Calls Review Rev Cox 23: Status Review Rev Cox 23: Status Review Revie	- Pad Advanu Lat Ap 20
-	For Externa Road	Ven Story Sch-Fend. SZGS 5415 Wen Yosh Yosh Yosh Sch-Fend. STGS 112070 Wen Yosh Yosh Sch-Fend. STGS 112070 Wen Yosh Sch-Fend Strike 1109 Wen Yosh Sch-Fend Strike 1109 Schwar Sch-Fend Sch-Fend Strike 1109 Schwar Sch-Fend Sch-Fend Strike 1109 Schwar Sch-Fend Sch-Fend Sch-Sch Schwar Sch-Fend Sch Schwar Sch-Fend Sch Schwar Sch-Fend Sch Schwar Sch Schwar Sch Schwar Sch Schwar Sch Schwar Sch Schwar Sch Schwar Sch Schwar Sch Schwar Sch Sch Schwar Sch Sch Sch Sch Sch Sch Sch Sch	Followary International Ltd Sectory Anternational Ltd Sectory Anternational Ltd Sectory Anternational Sectory Anter	KNV Get 29 \$11 H1_33 Global Carverthie Magett and NVV Say 20 \$117,01 Global Investment Fixed Ltd NVV Ag \$1	- New and Neverty 4 - Johnmer Fry Sacarflee Ltd thinks has inter is 2113,47 - Jeplin Tyudal (Sermale) Ltd	Iter IDA 145 Chi and Ang 27 Hounds Asset Ranogament Inschule / Viet IV av - Westgemery Energy Companiestions Pet Horigemery Energy Companies Famil Lid Norsgemery Energy Ing Marines Famil Lid	Republic Falls Burger CHF. STr134.84 Republic GHM Graver LCS. S122.81 Theodolic GHM Graver LCS. S1702.72 Republic GHM Graver LCS. S1702.72 Republic GHM Graver LCS. S1702.71	Ultra Weekcell France Lid Frank Access Lid Status Uniterative Lid S
	Bittering Statisty Acc	Charles To Oct 18. 2743.00	Felcon Frand International Inc. Televisie Capital Management Corporation Felvisie Capital Management Corporation Felsiste Capital Management, Ltd.	Geben Herright	Loop Build Case 61.10 1.17 +0.02 0.000 Builder Case B0.76 0.00 -0.03 0.000 Martin Case 61.21 1.23	How have 1	Auto Secretion Insuer nov. 811772.01 Kano Mon-Lio Insuer Nov. 811772.01 2009 Remain Lineau Co Lat. 811772.00 2009 Remain Co Lat. 8117772.00 2009 Remain Co Lat. 811772.00 2009 Remain Co Lat. 811772.00 2009 Remain Co Lat. 811772.00 2009 Remain Control Co Lat. 811772.00 2009 Remain Co Lat. 811772.00	IMA Devinies ActorFIGBLARERFIGTBLARER
دي	Conserved depart	CA Securities investment Fract Mining Ltd Hang Der blat Her 1HC1198.74 CB Ausst Management Birosen CentyBhr32.66 CBC International	General Mitrogenerat Ltd Forcel Mitrogenerat Ltd Stote Trading Ltd Stote Mitrogeneration Stote Mitrogeneration Stote Mitrogeneration Stote Mitrogeneration Stote Mitrogeneration Stote Mitrogeneration	Press 1 Pic Lar bas St	Acrus Select Statisty 52,000 Columba David Statisty 52,000 Columba David Statisty 52,2777 Columba David Statisty 102,2257 Columba David Statisty 102,405 Columba David Statisty 102,445 Key Acaset Microsystematic law Key David Host David Statisty 102,405 Key David Host David Statisty Key Acaset Microsystematic law Key Acaset Microsystematic law Key Acaset Microsystematic law Key David Host David Statisty Key David Host David Statisty Key David David David Statisty	Korgan Stanloy/BLL Global Allocaden Fe Korgan Stanloy/BLL Global Allocaden Fe Korgan Stanloy/BLL Global Allocaden Fe Korgan Stanloy Col. 20. 1111.40 Korgan Stanloy Col. 20. 1111.32 Korgan Stanloy Col. 20. 1117.32 Korgan Stanloy Col. 20. 1117.33	Schröder investment Hanegement Umited	Volu-Trac Investment Hanopoiset 114 Volu-Trac Bone Barris 20,00 -0.00 Volu-Trac Bone Bay Int. 50,057 11.25 +0.02 Volution Revealment Hanopoiset 120 Volution Revealment Hanopoiset 120 Volution Revealment Hanopoiset 120
	And bet pict at Sec 13 state". SO 235	97 Stort Terro No. 4 Fry 1972534 - +18112 (24 Fand Managers (Bernuth) Limited Bred Cerr FL Sep 30 MLS Cance Investment Management List Sentember Sector	UB Log Des Since C S High 4. \$11.301 UB Log Des Since C S High 4. \$11.301	Coldinana Sacha Bullyam in Spot 2011, 3024 et Saint Amary No 37 4027 E Shad Campy No 20 37 4027 E Shad Campy No. 3 Stri 1024 Group Don International Tat Martil Loval	Sey being magnin use an entrange Sey being magnin use an entrange Sey being magning dot an	Methods Investment Tract Company List The New Tank Forula 314,1320 Anne East Opportunities Fund Limited More East Opportunities Fund Limited More East Opportunities More East Opportunities	And Capital Inc	The Visitnane Frontline Found Frontler Paul Recognized Ca MV Fride Punk Sep 30. 512.05 The Visitname Franci Limitand Limits Rev Recognized Separatory Laid MV Found Faul Sep 30. 611.323
-	075 sangt nel Egaly \$1.477 - 6.011 - 076 sandt Orad	Capital International Capital In. Ford	Fidelity Investments - Japan Cicleman de Wal. 20125 -400 - Fidela Anna de Managarmal Lid - Capit Camir Faux 201 5109445 Ficanciars Atlas	Solida Solidary and	Com A Net Are St Bisso - Cane Star Starwing St. 52.65 - Cane Dit AV (Starwing Dirith 30	Other-Claimed Astronov Net Son (1982) Astrono	Control Statety and	For Wesh Forge US IT area US IT and US IT Westmann & LanningEngrateria inv Mignat Ltd The Navie Prospects Fund A Banny \$70,07
and a second	Sig Guteni Managed	Johan Mahi Lisi 90.00 Channainen Pandis Limited Yaman Bardes Sin Limited UK Spaty Fasti \$147.03 140.1 Chartegian Global Fund Standgebinted Lid Sparty Smithel Sp 34 2001.79	Adm Franze (spin - Fri 19.3) Chan Strop (sp Fried State	Grynin Inco Fold Sim 30. 395.27 Genriffen Giobel Ateost Management Ltd Genriffen Giobel Ateost Management Ltd Genriffen Giobel Ateost Sindia Ateost S	Korne Caluze Report Fand Ltd. NW Set 20	Presence Fund Drives eds Hop Pert Fand Drives edd Hop Pert Fand Drives 205 Grooter Fat Min Drives 205 Hop Pert Fat Drives Fat Drives Fat TAT TAB Drives Fat Stat TAB	- Far Eastern Weizl	Westkinde Limited Westkinde See See See See See See See See See S
	Augustan Hangad (1 276	for Came Variation Variation and Language Big Changesite Capital Corporation Companies Salect -C., \$1444.33 Companies Salect 20A., \$1282.44	Lemigned US Gover93.46 7.609 PL Dreidopti Bartens. 47.55 7.4698 First Blancios Incourse Fond Farra Mankoo Inc 917.719 Forera Managood Farrafis List Form Thaten Facil \$10278	Approve Cay Lends	NW 0e 25 501 51 Korea Informational Investment Famil Ltd (01) WW 0e 28 51 115 Korea International Investment Famil Ltd (V) NW 0e 29 5345	- North Star Jaternational Conversely and Conversely US Dollans, Still 18,00 - In Converse Parts Stellar, 221,1 21,2 - Int Converse Descriptions, 221,1 21,2 -	- North Januarium	SIN Sep 30
	OTHER OFFSHORE FUNDS Mar Mar ···· Mar	Choose or indian to work the company Lid granter Cas Halo Nov 1 \$248	Forest Protectionalis (Coynect) 12d Foren Pro Fand Sector 3222	Beneration Annes Mercegnette Unit Sectored Astern Proton CSL72 22/2 Resemblichter Asset Management Gesleff Commonities Ad Oct 11. 5109 Control Television Control 10. 5109	Korne Informational Investment Famil Ltd (V) Korne Investment Trans Co. Ltd	Inf Correctly Justices Test (2010) 2550 Inf Correctly Justice Neuron, 2013 Inf Correctly Justice Neuron, 2015 Inf Correctly Justice Neuron, 2015 Inf Correctly Justice Neuron, 2017 Inf Correctly Sector Mark Neuron, 2017 Corry Environment, 2017 Corry Environment, 2017 Corry Environment, 2017 Sector Neuron, 2017 Corry Environment, 2017 Sector Neuron, 2017	Existent Conservation	MANAGED FUNDS NOTES Management of the second seco
	ATSP tilestagement Liki Philippien Long Tarin Epoly Net Say 30	The China lavest & Decaleparant Fei Lid not Rep For Net Oct 31 510-520 CRitinuit (Galad Accest Mignet (Anko) Lid Critical Fei StateStateStateStateState State State StateSt	Frankington Group Pic forwithington Group Pic formethington for Laborat Frank Anet Management fordation Frank Russell Investments (Goyonae) List	Hassessan Ridgs IV Cornerso Hassessan Dri St	LET Annet Management PLC -	O' Higgins Accet Management Sidercos Main Junger, Matercos Main Junger, Matercos Marine, Orago Overstees Partners Ltd Drag Coverstees Factors Drag Coverstee Factors	- Scanicler, Shavens & Glark Inc - Accesses 200 hov 1 312 71 Provide New Yor 1 312 71 Free New Yor 1 Scope NY Nor 1	Bernicki - Bernizia Microsofty Astrophy Quernery - Primical Services Commission Invited - Castral Bask of Indiaci
	Account Name of States and States	Citizence Inventionent Trust Migt Co List Inventionen Trust Migt Co. 450.45 b) Span 1400 Tax Nov (2). 59.55 b) Span 1400 Tax Nov (2). 59.55 b) Span 1400 Tax Nov (2). 59.55 b) Fa. Case Control Mand are Lowenized provided	CE Early Stell.co Futura Wartel Traile Pand MW EX27.45 GBC Asset Management att Anomero Bater CU7.66 Arpen Sing Path E2.40	Hermann Francisch Hemogenandt (Egypt) Lid The Egypt Fred Lid \$10.46 Birds: Capital Manageneent Roten Jeloffent (Engypt) Held Capital Corport Feld Overson M.31 \$142.17	- 67 Deside Sand Cardy \$74.23 +0.05 67 Cardin Sand Cardy \$77.30 67 Name R 12 - 577.50 +0.13 67 Name H 12 - 577.50 +0.11 0.0 67 Name H 12 - 582.50 -0.11 0.0	Braden Evelotion Baster Foot Records State Production State Production South Records State Production South Records State Production State P	Line into 5 April 5 Apr	Limithourge - United Autoritation Limithoutgeoin. Julian Oberge - Charge made on ank of units. Selfing antes - Bai or reduction advection advection - Bai or reduction advection advection. Toris - The time shows advection der fund manager's reme - alle for or lasse funds watartion points without reduction by man of any funds watartion points without reduction by man of any funds watartion points without reduction by man of any funds watartion points without
Ŷ		Clariden Bank Erro Nam Mar Schlät UF Erro Nam	CENI Dolphin Society - Forest Gen Stehl Anti-Anti-Society - Station Societ Anti-Anti-Society - Station Societ Anti-Society - Station 	Tell Dierses Jul 31	Lill Asia Special Fund inc 34W Sep 20 Brocks 55 Brocks 56 Brock Juli Chicks Lecomode Fund Lill Chick	- Optim: 9 Final Rinergement Sela: Non-65 to 0: 0: 0: 0: 1.94 Optim: Ki NW Oct 10: 0: 20 327.00 Optim: Ki NW Oct 20 327.00 Optim: Senat Ki WW Oct 20 327.00 Optim: Senat Ki WW Oct 20 327.00 Optim: Senat Ki WW Oct 20 37.00 Optim: Senat Ki WW Oct 20 37.00 O	Second Without Friend Ltd (Bertheute) - Bund Fand Wit Sup 20. \$10,25	(4) 1001 to 1000 kowa (4) 1107 to 1400 kowa (4) 1401 to 1700 kowa - (6) 1707 ko mkinigtu
	Structure Structure Structure Allignação Capitital 517.71 18.502 60 Internazional 517.71 18.502 60 Internazional 517.72 58.602 67 Octaza 517.73 58.502 60 - Octaza 517.73 58.502 60 - Octaza 517.602 517.602 58.602 60 - Octaza 512.642 12.809 60 - - Octaza 511.702 511.702 511.702 - -	Euro Bond A	Disection Fe(s) 51(5) 51(4) Disection Fe(s) 51(3) Forigo Debugo Fe(s) 51(4) Minist Executor Fees 61(7) Techania Pittal The GP Talance Index Fand	BUDS Stat.72 - Cilintom Arkinge Funds \$13.75 - Harfrac Assis Pacific Plands 13.75 -0.05 Horg Kang \$12.26 13.75 -0.05 Horg Kang \$12.62 12.64 14.77 Hargen \$12.62 12.64 46.17 Tablend \$11.27 14.44 46.47 Thilded \$71.17 7.55 +0.04 Microb \$71.17 4.84 4.84	Uppink-with Review 3137.00	For Othis and Bachasia (Separatel)	- Distantino Piecija	In 2018 Offend of sale of entits. C Meterger's perception comparison for the second s
	Alifed During international Ruled Mages (1600)F AD Energing Adv	Bits Binst 1 Phil052.10 Non Mit 311473.72 Scholl Status Scholl Status Man Mit Scholl Status	Wei Hurt S. \$1,01 - GT Chile Browth Roldings Linder 6 GT Mail Smart \$44,65 - HW \$44,65 - HW \$44,65 - HW \$44,65 - HW \$44,65 -	And Converting Sport \$12.21 11.41 And Converting Sport \$12.20 12.71 And Wenner Chara \$12.25 \$177 +-0.11 Convert Chara \$12.25 \$177 +-0.11 Convert Chara \$12.25 \$177 +-0.11 Dis Data (Lineting \$10.15	Liberti Filt B1146271 Liberti STR	- Orbites; Holdsagement Lid Orbite; Hell Hou Fel	Status Robitston Investment Magart Ld - Status Robitston Investment Magart Ld - S.R. Status Find Inc. - Artanyo Oct 71	The fund priver problem of the other of the stars, The function of the stars of th
	Class 0	الله 195 (195 (195 (195 (195 (195 (195 (195		Andrews See Service pr. 511,51 11.62 -0.35		- Großen Dymptic	- B-Gang Mar (Sec 81. Status) - Kanga Mar (Sec 81. Status) - K-Gang Mar (Sec 81. Status) - K-Gang Mar (Sec 81. Status)	

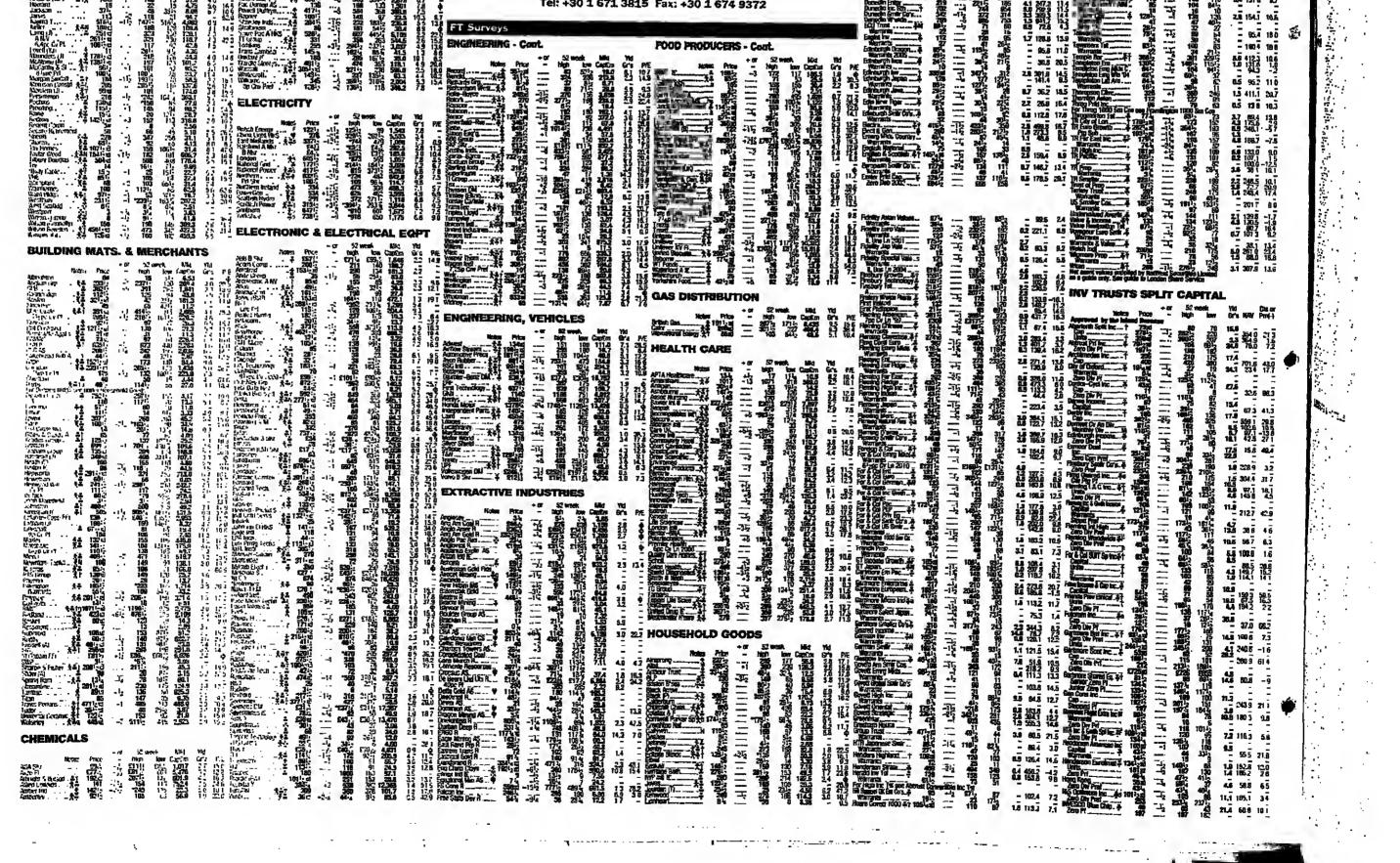
and the second s

Ÿ, ٠,

••1

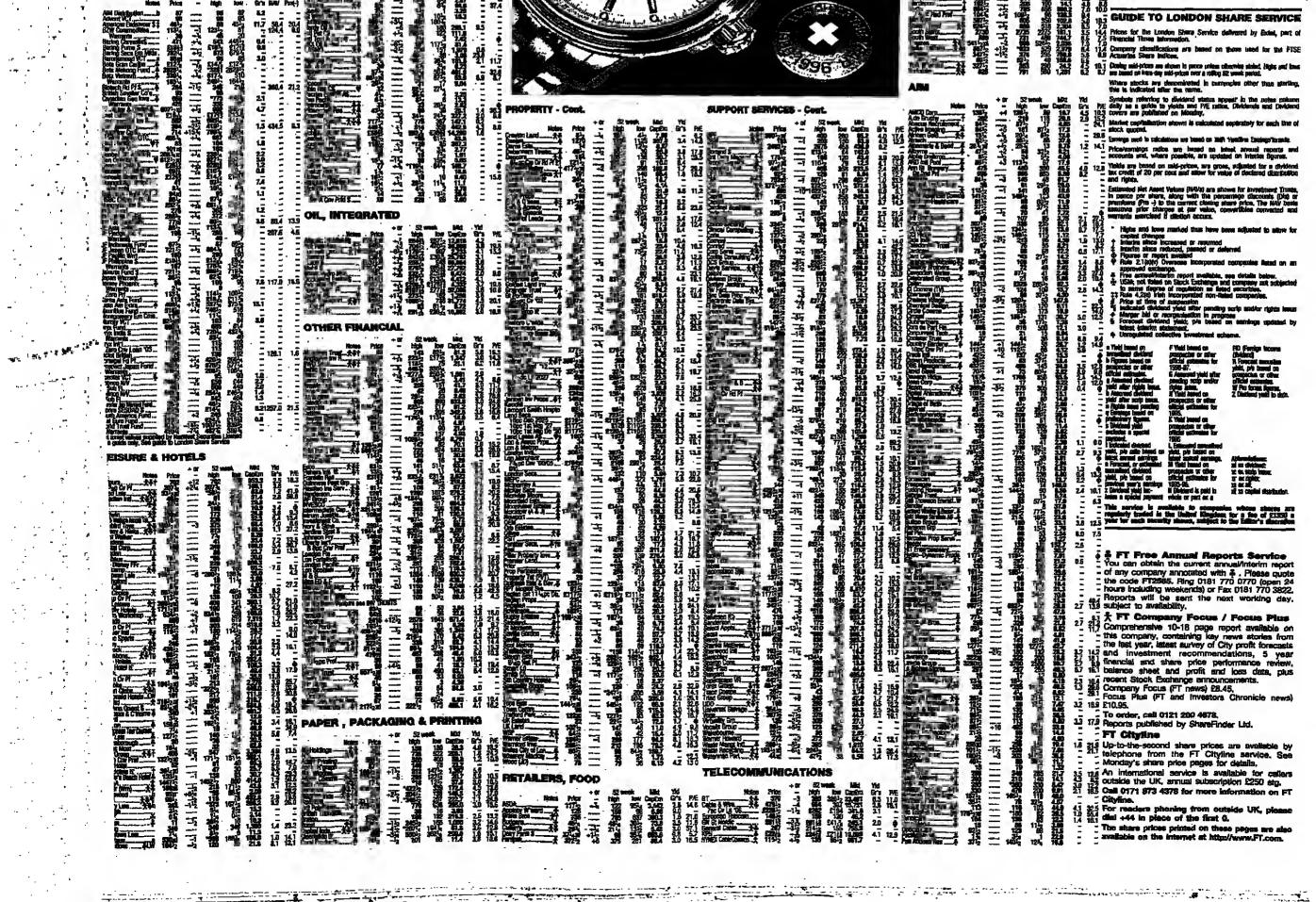
.

30 *		FINANCIAL TIMES	WEDNESDAY NOVEMBER 6 1990	· 1
ALCOHOLIC BEVERAGES CHENHCALS - Cont.	ELECTRONIC & ELECTRICAL EQPT - Cont. EXTRACTIVE INDUSTRIES - Cont.	HOUSEHOLD GOODS - Cont.	RIVESTMENT TRUSTS - Cont.	
Contraction Contraction				
	The Financial Times plans to publicly a Survey on The Financial Times plans to publicly a Survey on Survey Survey a Survey on Survey Survey a Survey on Survey on Survey Survey Survey a Survey on Survey Survey Survey a Survey on Survey Survey Survey Survey a Survey on Survey Survey Surve			



المحذا من الرجل

FINANCIAL TIMES	S WEDNESDAY NOVEMBER CLOSE	
		. 31
WY TRUSTS SPLIT CAPITAL - Con	ont. I ENTRE 2 HOTELS ALL	
OTHER INVESTMENT TRUST		HATHER HATERCHARTER ALLER ALL HATHER LANSAR ALLER ALLER ALLER HATHER LANSAR ALLER ALLER ALLER HATHER ALLER ALLER ALLER ALLER ALLER ALLER HATHER ALLER ALLER ALLER ALLER ALLER ALLER HATHER ALLER ALLER ALLER ALLER ALLER ALLER ALLER ALLER ALLER ALLER HATHER ALLER ALLE
Automore in the set of		
Homes Price - Might Jone . 6		ON SHARE SERVICE



;

FINANCIAL TIMES WEDNESDAY NOVEMBER 6 1996 32 1.15 LONDON STOCK EXCHANGE Equity shares traded FTSE All-Share Index Gilts to equity switch restrains UK shares Turnover by volume (million). Excludi 2.600 1,990 .000 1,960 1.940 800 programme trades indicated that 1,920 had to cope with flurries of sell- landslide victory by President Footsie kicked off the session MARKET REPORT 600 much of the sell-side activity by ing pressure since last week's Bill Clinton and Congressional on the back foot, slipping some 7 1.630 400 institutions had been completed, By Steve Thompson, UK Stock Market Editor points shortly after the opening. surprise UK interast rate rise, Democrats could result in a vig-1,880 although some adopted the view and fell further during the mornendured another buffeting yesterorous spending programme. 200 that the potential for further 1.820 day, closing 7.0 off at 3.921.1. Also worrying traders was the ing, with the index down just 1.800 increases in UK interest rates Talk of a series of switching But there were other potent sell-off in the second-liners and over 17 points at worst. Oct Oct Sep The midday release of BP's reasons behind equities' poor small cap stocks yesterday. The would result in further falls. operations, involving institutions 1996 Others, however, pointed to ahifting funds from UK equities FTSE 250 underperformed the third-quarter numbers gave a showing yesterday. Sterling's Wall Street's raily and said the into gilts, plus a continuation of strength against leading currenleaders, sliding 13.2 to 4,405.2, boost, and Footsie embarked on a nd ratios gradual rally which took It back growing feeling was that the next sterling's recent atrength, kept cies was said to have affected the while the Small Cap index 2781.0 FT 30 -7.0 meeting of the Federal Reserve'a FTSE 100 3921.1 -1.9 17.89 to almost level before it fell away the pressure on London stocks big international stocks and dealretreated 3.1 to 2.160.9. FTSE Non-Fins p/e -13.2 -4.0 -3.87 17.66 4405.2 monetary policy-making commit-FTSE 250 There was more had news with yesterday. ers continued to worry about the again. FTSE 100 Fut Dec 3931.0 17,0 FTSE 350 FTSE All-Share 1958.4 tee, starting on November 13, disappointing figures from Marks 10 yr Gilt yield Rumours of a switch between Wall Street's strong rise early possibility of further increases in 7.76 1934.2 Long git/equity yld ratio 2.06 & Spencer, tha UK's leading yesterday belped London stocks would see the US authorities hold 2.09 the two markets was highlighted base rates in the run-up to the 3,83 FTSE All-Share yield 3.84 regain some confidence. The Dow the line on interest rates. retailer. M&S shares, beavily general election. by signs of beavy business in Worst performing sec Best performing sectors index options. Gilts reaped the The US election, being held weighted in the FTSE 100 index, Jones Industrial Average was up Turnover at the 6pm count was s: General Electricity 781.9m and split evenly between benefit with the 10-year and 20yesterday, was another factor dropped more than 5 per cent, over 40 points not long after the Engineering +0.7 Transport leaders and second-liners. Cussaid to have troubled European year issues around 22-24 ticks US market opened. Media -0.8 Broweries: Pubs & Res

The FTSE 100 index, which has bears adopting the view that a sectors.

positive territory following

the announcement of its

The market had been brac-ing itself for bad news fol-

lowing last week's disap-

pointing figures from Shell.

The nervousness was

in sterling - hitting the prof-

its of hig dollar earners -

and the recent correction in

As it was, both the under-

lying profits were at the top

end of the range of analysts'

forecasts and the figures

from the refining and mar-

keting side were particularly

of HSBC James Capel com-

mented: "There is no great

ammunition for the bears in

these figures. If it were not

for the oil price and sterling

the shares would have per-

formed better." BP rose 2 to 6401/2p while Shell Transport

Marks & Spencer fell 26 to

483p after first-half results

showing profits growth of

pointed the market which

had forecast up to a 20 per

cent increase in profits - an

expectation which Sir Rich-

ard Greenbury described as

One analyst said the

results were good hut dull,

with M&S a low-risk stock

providing averagg reward.

11.6 per cent. This disap-

Analyst Mr Steve Turner

underlying oil price.

encouraging.

fell 7 to 958'4p.

"naive".

sed by the recent jump

third-quarter figures.

Active trading in **BSkyB**

ahead near the close.

By Peter John, Lisa Wood and Joel Kibazo

BSkyB was under pressure despite support from the stahilisation process following News Corp's \$1hn preference share issue.

The issue of special preference shares by Mr Rupert Murdoch's medla empire. which will be exchangeable into BSkyB stock, is being handled by Merrill Lynch.

The exercise price of the warrants represented a 20 per cent premium to the price of BSkvB shares in London before the warrants began trading yesterday and Merrill can buy BSkyB shares to stabilise the price for 30 days.

In early trading, the shares were up 14. but broker buying was undermined by a sell note from Lehman Brothers. Lehman began coverage of the satellite hroadcaster with a valuation of only 481p a share. It believes the increased cost of buying programmes, as well as more government regulation to ensure increased competition, could undermine profits.

Despite a big fall on Mon-Several analysts downgraded day, BSkyB failed to recover forecasts for the stock, and ended the day only 11/2 which is on a premium ratfirmer at 548'2p with the lng. ABN-Amro Hoare two-way pull on the stock Govett trimmed Its full-year estimate from £1.16bn to ensuring very heavy volume of nearly 30m shares. fl.11bn with the stock a

Relief mingled with enthu-"weak hold". UBS took £40m

causing considerable damage to markets at the outset, with some sentiment in the consumer

siasm to help BP remain in off its forecast to £1.12bn focused attention on aafe while retaining its positive high-yield stocks at a time of uncertainty. view on the stock.

Lloyds Chemists fell 51/2 to There was also vague hid 511p after the market was speculation in the sector, following mutterings of a possidisappointed by the price at which Gehe, tha German ble bid from Shell, National pharmaceuticals distributor. Power lifted 16 to 417%p and launched a bid. Unichem has PowerGen 13'4 to 534p.

already made an offer for the chemist chain. The Gehe bid, Lloyds TSB was weak, as one broker apparently went while topping Unichem's round offering 6m shares at 383p a share. With half the cash and share offer, was not deal carried out just before Dixons hardened 5 to 549n the close, the shares were off after NatWest Securities 314 at 389p.

upgraded its forecast for the Bank of Scotland dipped year ended April 1977 from £180m to£195m and from 11/2 to 277p, although further falls were stemmed by Gold-£210m to £225m for the folman Sachs which included lowing year. Most forecasts the stock in its European banking portfolio. for the current year have

Mercury Asset Manage-ment fell 20 to 1122%p heen between £180m and UK generators, National despite a 28.6 per cent leap in profits. The shares outper-Power and PowerGen were squeezed higher on stock formed the FTSE All-Share shortages after the recent index by 20 per cent over the nest 12 months. UBS recommendation, which

FT SO INDEX

as high as expected.

£190m

 Nov 5
 Nov 4
 Nov 1
 Oct 31
 Oct 30
 Yr mpo
 'High
 'Low

 2781.0
 2782.9
 2795.0
 2810.8
 2799.1
 2576.6
 2885.2
 2688.8

 4.11
 4.10
 4.08
 4.07
 4.12
 4.22
 3.78

 16.80
 16.90
 16.90
 16.99
 16.54
 15.54
 17.46
 15.00

 16.64
 16.85
 16.75
 15.84
 17.90
 15.71
 Ord, div, yield P/E ratio net P/E ratio net FT 30 since completion; high FT 30 hourty che Open 9.00 10.00 11.00 12.00 13.00 14.00 15.00 18.00 High Low 2779.8 2781.0 2774.5 2772.8 2776.8 2777.2 2782.8 2781,7 2779.4 2786.3 2772.8 Nov 5 Nov 4 Nov 1 Oct 31 Oct 30 Yr ago 37,653 39,380 35,536 35,647 - 1001.4 907.8 1248.0 - 25,603 23,400 28,174 - 339.7 398.1 525.4 36,098 28,199 1335.8 1908.8 27,247 33,088 515.8 638.0 SEAO bargains Equity turnover (2m)† Equity bargainst Shares traded (milt tExcluding mina-ma as and oversidas turn Nov 5 Nov 4 Nov 1 Oct 31 Oct 30 Yr ago "High 1029.50 1029.70 1025.40 1025.00 1022.20 - 1148.40 "Low 965.70 d 1990, All rights red

I London market data 52 Week highs and low Files and falls' LIFFE Equity options 514 723 .361 Total Highs Total Lows 54 132 Total Rises Total Falls Nov 5 "Data be sed on Equity shares in ed on the London Share Service

Better than expected intsrim results initially lifted Whitbread a few pence, but the shares then fell back 4 to 736%p on trade of 5.5m shares, an unusually high volume for the stock. Analysts said there had

Marketmakers said the emer-

gence of a series of medium-sized lowly fibn.

heen some switching into other stocks, particularly Greenalls, which rose 17% to 588%p, with SGST recommending the stock as a "buy". Scottish & Newcastie. which hardened 51/2 to 648%p. was also said to be a

beneficiary of some switching from Whithread. First Leisure fell 9 to 360%p after a disappointing trading statement, with market conditions for bingo said to be depressed. Ladbroke, which also has substantial

interests in bingo, fell 31/4 to 1941/p in sympathy. Diversified industrials company Cookson Group gave up 8 to 217/ap after trade of 5.2m. after Crédit Lyonnais Laing

weighed in with a sharp profits downgrade. Crédit Lyonnais cut its current year profits forecast hy £23m to £170m and reduced the following year's figures by £36m to £189m. Explaining the move, Mr Ian Rennardson at Crédit Lyonnais said: "The electronic materials division - responsible for a third of profits is showing no signs of improving this year and signs for 1997 are not very positive so far." In the rest of the sector. Tomkins were wanted and

the shares hardened 3% to 255p on volume of 7.7m. 141,036 BTR added 5 to 255p. Albert E Sharp favours the stock and suggested investors should "buy for growth potential". British Airways was one

of the day's best performers.

The shares jumped 18% to

568p after posting interim

figures at the top end of mar-

FTSE Actuaries Share Indices

ket expectations.

FUTURES AND OPTIONS Sentiment in the stock vas boosted by expectations FISE 100 INDEX FUTURES (UFFE) \$25 per full index point that the carrier's tie-up with American Airlines will soon receive approval.

tomer husiness on Monday was a

Bid speculation continued in Vodafone Gronp. The shares gained another 41/2 to 246p, in beavy trading of 18m, with AT&T of the US still thought to be the most

still unough likely predator. Fairway, the printing ser-wices group, fell 28% to 81%p Dec beck a profit warning. In Feb More Group dropped 13% to 684p as the billboard and bus shelter advertiser announced a one-for-four rights issue at 600p a share to part-fund the £78.1m acquisition of Wennergren Williams, the Swedish outdoor advertiser.

Gotti Minte Index (21)

III Registral Indices

North America (12)

Copyright, FTSE Inter number of companies

Dey's Nov 5 chge% Nov 4 Nov 1 Oct 31

Atrica (13)

60686 945 1374 21.5 3953.0 -21.6 3955.0 -25.0 3953.5 3926.5 3941.5 3946.0 3942.0 761 50 3953.5 3953.5 3953.0 FTSE 250 INDEX FUTURES (LIFFE) £10 per tuli index point 4129 4430.0 -13.0 Dec FISE 100 INDEX OPTION (LIFFE) ("3918) £10 per full index point
 3850
 3900
 5950

 C
 P
 C
 P

 77
 1212
 4112
 2712
 1715
 55

 119
 4042
 66
 59
 67
 6242

 1412
 5712
 110
 76
 51
 5924

 168
 7442
 135
 92
 195
 114
 4050 4100 3800 4000 C P C P S¹2 98¹2 1 148¹2 34 112¹2 18 151 57¹2 127¹7 39¹2 16² 81 141 59¹2 173 4 145 200 1 C P C P 169 3¹₂ 123¹₂ 6 198¹₂ 20¹₂ 157¹₂ 23 217 33 179 44 1 242 49 203 59¹₂ 259 115¹₂ 1 1981₂ 9 1981₂ 24 2011 173 4312 210 **1951**2 151 12 Calls 44,052 Puts 50,984 EURO STYLE FISE 100 INDEX OPTION (LIFFE) £10 per full index point
 3725
 3775
 3625
 3675
 3925
 3975
 4025
 40

 Bor
 180
 2
 142
 4
 87
 8
 5712
 19
 27
 3812
 512
 7012
 2
 11312
 1;

 Dec
 2185, 1842
 17512
 2512
 1365
 15
 100
 4812
 8812
 67
 44
 9212
 28
 12312
 1312

 Lin
 3423
 3010
 2010
 2010
 127
 1513
 15
 155
 155
 155
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 151
 < 1, 18112

Extractive Industri

LOW

3920.0

Distributors

High

+0.5

.+0.5 5

Open Sett price Change

والمتعاجب والمتعاجب

.... -.0.8

-0.7

(APT)

5

Est vol Open int

24295

Set at 11 and

- 2

÷....

10

Sec. 1

•

35.

5812 5812 112 011	3942 10242 51 19642 8212 24842 123		13421	18 ² 2 160	85 136	167 l2 206	
and Puts 15,634	- Underlying inde	a value.	Premiums	shown are	lutised on	pettionent	prices.
				The second second	1000		

TRADING VOLUME I Major Stocks Yests Val Net Div. Grs P/E div. cov. yid net 387 7,500 5,200 1,600 1,700 1,200 93 13.2 LA2 0.3 32 52.0 16312 412 16212 +1 90¹2 88¹2 99¹2 15²12 125 bw-28.3 +8 -1 inds † 301 42 28.4 BP1 BPS Inde BSNy91 BTR1 Bank of 5 Bank of 5 130¹2 11¹4 ко.2 -2 +1 207 177 180²2 Thistie Holdes 302 282¹2 Utina Electri 62 52 TVictory Corp 817 -3½ -2 R17 25 29 173 RW6.5 23 28 198 29217 5212 Bacat Blue Circlet Booker Booker Bottannoc Bint, Actooptor Bint, Actooptor Bintah Biotect Bintah Biotect Bintah Biotect Bintah Calif Bintah Steet Burnah Califo Burnah Califo Burnah Califo Burnah Califo Burnah Califo FT GOLD MINES INDEX 52 week High Low P/E ratio Nov % chy Nov Year Arces die 4 an day 1 ago yield % Burtonf Cable & Weet Carbury Schu Caradon 1882.70 +0.5 1873.42 1772.23 2521.73 1772.23 Carlton Comme." Chubb Costs Viyolia Costs Viyolia Costs Viyolia -1 40 2,000 5;;; 5,200 843 5; 103 5,300 2,700 2,700 2,700 2,700 2,700 2,700 2,700 1,400 1,400 1,400 2,700 36.23 3553.86 2331.68 20.96 2927.34 2005.75 63.82 2186.39 1557.66 2482.07 +0.3 2475.26 2333.68 2089.93 +1.3 2063.53 2174.34 1687.13 +0.4 1679.56 1557.56 3.10 2.66 9.78 Compass Cookson Countsuids Figures in brackets shi 992. † Partial, Latest pro 00 31/12 De La Rus EMIT East Mexand Doct. Bioctracompo Eng Chara Clays Entorprise OVT Rid Foreign & Col LT Gen, Academit General Elect † Giaso Wollcomet The UK-Series Net P/E Xd adj. Totel Div. vield%



Calls 6.3 LONDON RECENT ISSUES: EQUITIES issue Amt Mit. prica paid cap цp (Em.) High Low Stock
 p
 up
 EDn.)
 High

 §3
 F.P.
 7.55
 44

 §135
 F.P.
 47.7
 164/2

 3
 F.P.
 7.02
 41/2

 F.P.
 10.2
 162/2

 §00
 F.P.
 24.9
 62/2

 \$00
 F.P.
 24.9
 99/2

 §
 F.P.
 54.2
 117

 F.P.
 54.2
 110
 132/2

 §
 F.P.
 54.2
 110

 §285
 F.P.
 142.2
 310

 72
 F.P.
 140.2
 310/2

 § 100
 F.P.
 42.3
 101

 72
 F.P.
 140.2
 310

 72
 F.P.
 140.2
 310/2

 § 100
 F.P.
 42.3
 12/4

 75
 F.P.
 54.6
 931/2

 § 100
 F.P.
 160.1
 302/2

 § F.P.
 90.5
 62

 § Atematitre
 Investment
 Kor Em.) High Low Stock 7.55 44, 4 (Beechcrott 4.7,7 164, 152°, Comise Trejter 7.02 42, 152°, Comise Trejter 24.9 62°, 153°, Doep Sac Leioure 24.9 62°, 25°, Doep Sac Leioure 24.9 62°, 26°, Throan Fint 84.5 113°, 81°, Toac Inter Med 24.9 59°, 28°, Honcas Fint 140, 23°, 28°, Honcas Inte 140, 23°, 28°, Lonin Coports 27.8 79°, 27°, Lonica Road 43.1 131°, 27°, 28°, Lonica Road 19.8 211°, 187°, Oriental Rost 19.8 211°, 187°, Oriental Rost 19.0 228°, 28°, Lonica Exam 19.0 228°, 28°, Lonica Lonica

Health Care

5 insurance .



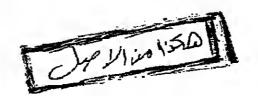
With the launch of Company Briefing, the FT internet site now gives you instant snapshots of more than 10,000 listed companies worldwide - all drawn from FT information's Extel database.

You can search by company name, size, sector You can access essential financial and country. information, check current stock performance and scan relevant articles. So to gain even more

from the net. log on to http://www.FT.com.

Financial Times. World Business Newspaper.

TSE 100	3921.1	-0.2 3929.1		3979.1		4.00	2.06	15.21 153.51		Granadat Granadat Grand MeLt	1,500	45.12	212
TSE 250	4405.2 4447,A	-0.3 44184		4463.5		3.55	1.48	23.60 159.80 22.82 167.83		GUST	1,	60315	
TSE 250 ax 17 TSE 350	1958.4	-0.2 1982.4				3.90	1.95	18.48 75.50		GRET	798	58912	+1 14 13
TSE 350 Higher Yield	1667.3	+0.1 1869.3			1753.3	e.18	1.63	13.18 87.33	1338.65	GRNT	14-2	1140	
TSE 350 Lower Yield	2055.8		2080.3			2.74	2.15	21.27 54.22		Guinness† HSBC (75p shert	2,800	128322	+1+
TSE SmallCap	2160.90	-0.1 2164.03				3.15	1.58	25.15 81.51		Hommanion	£1,200	380	+151
TSE SmallCap ex IT TSE All-Share	2165.25 1934.20	-0.1 2187.53				3.34	1.65	22.69 65.33 18.93 73.06		Hanson† Harrisons Crostiald	1,900	1251	1.2
FTSE Actuaries Ind			1040.00	1350.00	1131.45	3.04	1.02	10.00 10.00	1005.52	Hays	761	51612	-12
Proc Permatee Ind		Day's			Year	Div.	Net	P/E Xd add	Total	Hyder	587	69412 37712	. + 2
the second second second second	Nov 5 c	hge% Nov 4	Nov 1	Oct 31	390	yield%	COVER	natio ytd	Ret.m	IMI IC2†	568	76712	-11
0 MINERAL EXTRACTION(24)	3709.09	-0.3 3720.39	3765.40	3848.64	2853.96	3.85	1.71	19.01 128.05	5 1819.32	Impenal Tobacco†	8,900 3,400	353	-5
2 Extractive Industries(6)	4126.40	-0.8 4158.89				3.93	2.65	11.95 182.00	1229.87	Johnson Matthey	113	5.312	-19
5 Oil, Integrated(3)	3812.81	-0.2 3820.04				4.05	1.55	18.88 135.18		hungflahert hwik Save	2,500	830 29912	25
6 Of Exploration & Prod(15)	2783,62	-0.8 2800.53		_	_	1.51	1.71	38.43 52.04	1686.69	Ladbroket	5,200	19412	-312.4
D GEN INDUSTRIALS(275)	2019.05	-0.3 2025.34				4.16	1.74	17.25 76.28		Land Securities†	5827	72512	-142
1 Budding & Construction(34)	1154,74	+0.3 1181.82				3.57	1.45	23.84 38.99		Legal & General?	+ 000	316/2	++4**
2 Building Matts & Mercha(29) 13 Chemicals(25)	1895.99 2404.78	+0.1 1683.89				4.09	1.41	21.70 72.84 20.46 86.14		Lloyds Abbey Lloyda TSB†	11.000	623	342
4 Diversified industrials(19)	1434.89	+0.3 1430.73		-			1.61	10.99 89.35		LASMOT	2,800	204 60512	-212
5 Electronic & Elect Equip(38)	2317.57	-0.6 2332 67				3.38	1.48	25.00 64.15		London Elect	139	14412	24.14
6 Engineering(71)	2588.74	-1.0 2614.75				3.15	2.47	18.64 72.59		LucasVantyT	7,800	245 427	-121
T Engineering, Vehicles(14)	3214 23	+0.2 3208.09				2.16	2.68	21.67 102.56		MEPC	1.000	200	17
8 Paper, Pokg & Printing(28)	2565.87	-0.2 2569.77				4.06	1.82	16.91 92.21		Marka & Spencert	15.900	483	20
P Textiles & Apperel(19)	1153.68	-0.5 1158.80				6.19	1.15	17.35 52.22		Mercury 9:390 Mari Morrison (Wm.)	2 000	160 ¹ 2	-20
O CONSUMER GOODS(82)	3654.33					3.94	1.93	18.39 129.8		NFC NotWest Bank†	3,300	- 192	+212
12 Alcoholic Beverages(3) 13 Food Producers(25)	2729.95 2538.55	+0.2 2725.47				4.65	1.63	16.52 104.18		Netional Gndt	2.400	17712	-1
4 Household Goods(15)	2706.10	-0.7 2724.42				3.78	2.25	14.73 100.0		National Powert Next1	11.700 685	41712	+16 +312 -
6 Health Care(16)	1965.67	+0.5 1855.93	1962.87	1962.90	1919.14	3.03	1.87	20.99 54.40		Northern Bect.	858	632 ¹ 2	-221
7 Pharmaceuticais(14)	5658.87	+0.1 5655.36					2.01	20.55 182.8	3 1952.20	Oranget	181	19412	-
8 Tobacco(2)	3514.36	3514.98					2.13	7.96 262.0		Poarcont P & Ot	2,300	77412 501	-161
O SERVICES(254)	2560.45	-0.5 2572.67					1,97	21.77 73.57		Planators.	973	165 2	
1 Distributors(30)	2918.43 3169.68	-0.7 2937.82				2.92	2.02	21.14 79.69		PowerGen† Premier Famel	3.600	534	+1322
12 Leisure & Hotels(25) 13 Media(45)	3109.00	-0.8 4293.43				2.79	2.03	22.35 173.00 28.27 SL96		Provident Financial	278	4561	
A Receivers, Food(15)	1999.98	+0.1 1997.06				3.93		13.87 63.74		Prudentijit	1,700 -191	455 343 ¹ 2	-112
5 Retailers, General(45)	2074.51	-1.4 2104.84						19.19 63.83		FIMC	450	1071 2	- 2
7 Browaries, Pubs & Rest. [21]	3187.93	+0.5 3151.10					2.00	19.05 68.29		Raca	1.100	2751	-1012
8 Support Services(50)	2600.21	-0.4 2610.13				1.88	2.26	29.37 47.97		Ratrackt Rock Convert	910	27512 28912	
S Transport(23)	2538.96	+0.7 2520.94	_		-	-	1.15	28.32 82.36	_	Rank Groupt Reckin & Colmant	4,200	70212	1
10 UTTLITTIES(33) 12 Electricity(12)	2361.94 2463.61	+0.1 2359.07 +1.3 2432.57				5.49	1.75	13.03 168.8		Rectanci† Recd Inti.†	607 1.800	1113 ¹ 2	-112
4 Gas Distribution(2)	1298.15		1298.15			9.23	0.83	8.45 429.11		Flentoki	000	. 407-2	-9-
St Telecommunications(8)	2043.41	-0.3 2048.99	1991.82	2003.25	2054.09	3.95	1.51	20.96 50.32		Rota Roycet	2,200	728	-142
58 Water(11)	2151.28	-0.2 2158.55					2.29	8.35 103.6		Royal & Sun Alice† Royal Bir Scotland†	1,400 1,200 2,000	49812	-32
19 NON-PRANCIALS(858)	2022.54	-0.2 2027.43	2035.74	2048.38	1830.89	3.86	1.54	17.66 77.81	1567.59	Sateway	2.860	359	+2
O FINANCIALS(103)	3264.95	3264.95				4.07	2.36	13.02 124.3	1437.74	Satisbury† Schroders†	1.700	1785	712
1 Bartics. Fietali(8)	4896.15	-0.1 4702.09					2.71	11.92 175.9	5 1569.94	Scottish & New.† Scot. Hydro-Elect.	3,800	6.8	-712 +512 -715
2 Banks, Merchant(6) 73 Insummos(21)	3721.32	-0.3 3731.30				2.80	2.81 2.27	15.91 95.60		Scottish Power1	1,800	291 315	+31
4 Life Assurance(7)	3717.82	+0.3 3705.58				5.42 4.1S	1.78	10.15 79.70		Sears Sedgwick	9,200	725	ц., н
7 Other Financial(20)	2701.11	-0.3 2708.32				4.05	1.79	17.28 88,27		Severn Trem	2,200	124.7	· +
9 Property(41)	1645.82	+0.1 1645.45				3,90	1.27	25.25 49.30		Shell Transport† Siebe†	4,100	958 ¹ 2 949 ¹ 2	÷
O INVESTMENT TRUSTS(127)	3118.71	-0.3 3128.87	3138.45	3143.22	2910.51	2,28	1.12	48.88 62.38	1100.78	South East Smith (W.H.)	373	243 2	212
9 FTSE AS-Share(898)	1934.20	-0.2 1938.07	_		_	3.64	1.92	16.93 73.08		Smith & Nephow1	3,700	191 755	+3 -
SE Fledaling	1222.05	-0.2 1224.47					0.65	68.27 31.06		Smith Beechamt	2,600 252	753	-
SE Fledging ex /T	1236.31	-0.2 1238.61					0.55	72.98 33.89		Southern Elect	1,100	64712	
										South West Water Standard Chorid.†	130 3,100	680 654	15
Hourty movements									•	Storohouse	1.300	283 12912	127
Open 9.0	10.00	11.00 1	2.00 1	3.00	14.00	15.00	16 1	0 High/day	Low/day	Ti Groupt	1,400	550	-10
						-				Tarmac Tale ô Lylet	707 321	37510	. ** ? •
SE 100 3921.0 3924. SE 250 4413.8 4413.						3925.5			3911.0	Taylor Woodrow	328	15342	+1'21
SE 350 1958.2 1960						4407.7	4404		4404.4	ToleViest Comma Tesco†	570	141	· _++
									1954,7	Thames Water†	3.300 1.200	641 2	-2
no of FTSE 100 Day's high: 8:62 AN	Day's low: 1	1:04 AM. FTSE 1	60 1996 H	ligh, 4073	3.1 (27/10/2	96) Low	3632.3	(16/07/96) .		Thom Tomkins†	5,200	338	32
FTSE 350 Industry	hasket									Unigate	22	431	-12
										United Bescults	802 ,400	1274 206 ¹ 2	
Open 9.00	10.00 1	1.00 12.00	13.00	14.00	15.00	16,10	Cie	se Previous	Change	Utd. News & Media	2-13	675	्म तोट
dg & Cristren 1154.3 1154.9	1155.3 1	158.1 1156.5	1156.9	1156.3	1155.8	1155	_		+4.1	United Unlines†	628 13.000	5-571	44
ermaceuticis 5568.5 5580.9	5577A 5	554.2 5561.8	5565.2	5570.2	5569.9	5574	A 556	5 7 5500 C	+3.1	WPP Wesper Water	1.400	226	- 1
ater 2137.0 2138.5	2134.0 2	132.3 2132.2	2130.1	2133.4	2135.0	2133	2 217	6 4 21.11 0	-5.5	Whithead	5,500	- 34712 - 776612	ः दे
anks, Retail 4752.2 4756.2	4751.4 4	741.8 4745.5	4750.6	4767.7	4764.3	4753	9 475	6.1 4762.1	-50	Walliams Horrs 1	1,600	345	-5
a further information on the FTSE	Actus/ies	Share Indices o	lesse con	start FTS	SE Intorne	Incont	AT 0174	1 140 1040		Wills Conton Winney	1-45	12312	₹ړلې .
e FTSE Actuanes Share Indices s temational in conjunction with the	Faculty of	Actuades and		SUBRICATION OF A	set of g	round	rules es	tablished by	FTSE	Walsolivit Yorkshing Elect	2,500	4.15	4
A PECTICS RESERVED. PISE ENC 1	COCSIO, B.O	Tracte marks of	the Lond	on Stoc	kuones C	rise	miema	wonal Limited	1996	foriches Water	364 30	73812	
change and The Financial Times	and are us	ed by FTSE Inte	mational	under		_	_	-		Zenecat	3,900	655 160	
ance. † Sector P/E ratios greater	than 80 an	d net covers or	eater that	30 are			ГС			Based on trading vo major securities dea	lume for s	selection	e 7
ot shown. ‡ Values are negative. Nos Trust now Framington 1000 Sr	WAME CHA	Tare Are a	non 1000	Smalles	st 🛔) 🔚 🖻	ENE	System yesterday un	pt - 1 30pm	n, † Indica	ton 30"
	10101 0.05	nasi prise Sh	all ap &	42).	TA IA	TEP	NAT.	IONAL	V===	FTSE 100 moles, con	stitueni. A	Vi trades a	ra 🖉
					1.5		IN STATES			Founded, Source. Es	AND DESCRIPTION		
										Information,			~



Lows shown on a 52 WORL MARKETS ОСК D ST EUROPE 506.50 348 575 001 615.50 477.50 255525925928 COURT CONSTITUTION CONSTITUTICO and a state of the second s Schrift 7 Vieter Strenden Standen Schole Schole Tellor Wieter Schole Sch SCEACESS SER Nas-3 $\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i$ - 03 955 - 10 - 335 + 92 245 + 90 852 + 90 852 - 10 2120 - 240 - 240 852 - 10 2120 - 240 852 - 10 2120 - 240 852 - 10 2120 - 240 852 - 10 2120 - 240 852 - 10 2120 - 240 852 - 10 2120 - 240 852 - 10 2120 - 240 852 - 240 reserved Biology Biolo 118 25 340 175 137 175 137 175 137 175 137 175 137 175 137 175 137 175 137 175 137 176 127 177 127 176 127 177 127
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 785 418 785 857,50 810,40 3,290 1,320 857 2,517 2,517 2,517 2,517 1,942 2,517 1,942 2,517 1,942 2,517 1,942 2,517 1,942 2,517 1,942 2,517 1,942 2,517 1,942 2,517 2,50 2,517 2,50 2,517 2,50 2,517 2,50 2,517 2,50 2,517 2,50 2,517 2,50 2,517 2,50 2,517 2,50 2,517 2,50 2,517 2,50 2,517 2,50 2,517 2,50 2,517 2,50 2,517 2,50 2,517 2,50 2,517 2,50 2,517
 Trace
 <th -295 74.65 11.26 7.2 -10 14.34 64.56 121 -205 2450 323 -207 14.36 2450 321 -50 9120 5456 1.0 -50 9120 556 1.0 -50 920 5260 0.1 -50 920 5260 0.1 -50 920 5260 1.0 -50 920 5260 550 -12 550 1.510 -83778284949111 5,510 2,765 13,800 7,500 2,310 3,050 3,700 15,290 DHE NOV 5/HKS 第14 2019 5/Kronod TTALY (Nov 5 / Line) 533934283452786 57742345459974844887 18171-57 18171-57 18171-57 18171-57 18171-57 2934984927 arone souther state and a second state of the second state of the second s 121 82444556684 I Astronomic Constant Statements ov 5/Frs.) 1,5100 1,550 1,550 1,510 0 4,940 5 2,720 1 4,900 1 4 250.22113.2517.05.3844.520.4468 たちたもの 148.50 98.52 158.54 158.54 158.54 158.54 158.54 158.54 178.5 178.5 17 PALLI ALC 150 1.4 135 11039 1012380 11002380 11002380 110012380 12011230 12011230 12011230 Sectors and subsection of the sector of the 1981 64 41 450 1117710177746641750047775407301750 oy 5 / Ziety 12 Edual Edual Metal Wedal Wezek 24.20 13.59 17.20 17.20 Nov 5 / Fm.) SIIIIS +25 +00 +15 15,100 1249988205408 arian an arising and a second a second and a second 2,1039 1,209 4272 1,026 342,402 1,026 342,402 1,428 342,402 1,428 342,402 1,428 342,402 1,428 1, 111 61 070 11.70 312 17.40 33.30 10.10 40.90 40.90 2.40 -15 1,25 148 1.0 ... -15 1,25 945 1.6 1.4 +152 1.6 1.6 1.4 -1 351 2475 0.4 8.9 ... 2,250 1.680 4.5 7.0 +46 1,300 1.610 ... 13.0 +100 7,130 4,150 1.0 1.8.8 **Rockwell supplies** 12.4 נג ללא גו ללאו לליו ביו ביו לא הלגו גילו לילעו גילטו למלג לא גוגניו שליו מלו ללי ולה גול וו לו הלאו הליו וליו ל נוצל לא גו לליו היו ליו ביו ביו לא היו גוגניין לא גוגניו לא גוגניו שליו לא גוגניו לא גוגניין איני איניין איניי נוצל לא גוגנייין האיניין איניין אינ 13 virtually every European 0.7 car manufacturer with
 605
 480
 3.8

 510
 226
 1.7

 3231
 270
 4.6

 809
 700
 6.6

 800
 8.5
 8.6

 800
 8.5
 8.6

 800
 8.5
 8.6

 800
 8.5
 8.6

 800
 8.5
 8.6

 900
 8.5
 9.6

 900
 8.5
 9.6

 771
 10.5
 1.7

 7400
 10.7
 1.7

 7400
 10.7
 1.7

 7400
 10.7
 1.7

 90
 90.7
 1.6

 771
 10.5
 3.6

 770
 10.7
 1.7

 90
 7.7
 10.6

 17
 9.6
 3.20

 17
 10.7
 1.7

 17
 9.6
 2.00

 17
 3.6
 2.00

 17
 3.6
 2.00

 100
 1.9
 9.0 11444 1444 1444 14 8488841888448 AsiPA Arthus Arthus Arthus Arthus Arthus Arthus Bio Bok Conta Cont -25 4,400 2,175 2,3 - 6,200 4,300 4,2 +25 2,700 1,359 3,0 -350 2,500 1,359 3,0 -350 2,500 1,359 3,0 -350 2,500 1,359 3,0 -355 4,400 1,029 4,4 +150 3,507 2,400 0,7 - 5,250 3,100 3,4 Antint Bolant British Birlish 4,1250 4201 1422 547 6811 478 87.00 שמזקקו ו לאשלים איזאלאיו שלביאלאו לי איזאלאין ו automotive components and systems. 21089 21092 247082 247082 247082 247082 247082 247082 25408 1.00 Annu State S Andrea Andrea Andrea Bayer Fith B 94-51 81-88888884884884896 \Lambda Rockwell 16 60. 5 12 505.8 485 257.00 16.70 16.50 245 1

5/Tklim

ACTIVITY OF A

PACIFIC

-138 498 07 -138 100 100 100 01 -139 100 100 100 01 +100 100 100 100 01 +100 100 100 100 10 +100 100 100 10 +100 100 100 10 +100 100 100 10 -100 100 100 00

Autor A Autor A Dubri Cuttr2 Engo A Engo A Finata Finata Finata Kento Kento Matta Kento Matta Ma 200 200 35.30 31.50 107 335.30 107 335.30 107 335.30 108.50 108.50 108.50 446 14.60 251 255 255

12526 EST. 077388

7 1975

11/2017/20

NAME AND A

	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Art 400 275 4.1 main 398 490 275 1.1 main 398 470 110.90 577 1.3 art 1.3.0 470 110.90 577 1.3 art 1.3.0 470 100.90 577 1.3 art 1.3.0 470 100.00 1.57 2.1 art 37.36 -1.00 57.56 2.2 1.6 art 37.37 -1.00 7.56 4.2 2.2 1.8 art 37.4 +10 112.0 2.20 2.4 1.0	- THESP 1,820 +32,2373 1,518 0,8 - ACMEN 1,400 - Tec5ps 2,360 +63 3,659 2,320 3.9 - ACMENT 5,170 - Telech 3,530 +125 3,630 2,110 3.4 - Apain 10,900 - Tam5Y 2,545 +45 30,697 8,400 3.3 - Amment 10,900 - Tam5Y 7,530 +45 10,897 8,400 3.3 - Amment 1,800 - Tam5Y 7,530 -40 10,320 8,400 5.4 - Amment 1,800 - Tam5Y 9,404 +140 4,508 8,700 5.4 - Amment 1,800 - Tam5Y 9,404 +140 4,508 8,700 5.4 - Amment 1,800 - Tam5Y 9,404 +140 4,508 8,700 5.4 - Amment 1,800 - Tam5Y 9,404 +140 4,508 8,700 5.4 - Amment 1,800 - Tam5Y 9,404 +140 4,508 8,700 5.4 - Amment 1,800 - Tam5Y 9,404 - 140 4,508 8,700 5.4 - Amment 1,800 - Tam5Y 9,404 - 140 4,508 8,700 5.4 - Amment 1,800 - Tam5Y 9,404 - 140 5,500 3,720 1.9 - BMMet 3,500 - BMMet 3,5	+170 15.020 17.450 2.5 	
	EE (Nov 5 / Frs.) PMA 156 + 2.20 171 10 123.21 8.5 Phy 1 +10 25 268 4.7 Phy 1 +10 25 268 4.7 Phy 1 +10 256 71071 2.4 Phy 471.40 +120 500 368 2.7 1.100 286 2.7 750 - 3783 432 2.0 107.80 3.10 600 437 2.5 107.80 3.10 600 471 2.7 176.0 - 2 605 471 2.5 176.0 - 2 6	46 1,196 -101,4101,05013 47 199 - 240 138 3.6 47 276 175 - 46 195-0 +5.80 220 175 - 46 195-0 +5.80 220 175 - 46 195-0 +5.80 220 171 0.7 46 195-0 +5.80 220 171 0.7 47 182 +11.05 1859 100 0.4	Breeker Fit ABNART 87.10 +70 98.10 68.40 3.0 C876A 3.515 ABSANT 86.20 +2.20 105 3.0 C876A 3.515 ABSANT 86.20 +2.20 105 3.0 C876A 3.515 ABSANT 86.20 +2.20 105 3.00 C87mm 1.425 ACDD IN 17.20 +1.00 2.20 105 3.00 C87mm 1.435 ADAMAN 29.300 +.00 3.00 1.0 -0.047m 8.430 Boahon 9.500 +.00 3.570 1.500 1.0 -0.047m 8.430 Callos 9.500 +.00 3.571 1.500 1.6 Enders 3.145 Dashon 9.500 +.00 3.571 1.576 1.6 Enders 3.145 Dashon 5.200 +.00 3.570 1.6 Enders 3.125 Dashon 5.200 +.00		
	DICES			-	
MUCLAN HI 10230 HULLAN HI 10230 HULLAN HULLAN HULLAN HULLAN HULA	Nov Nov Nov 5 4 1	High Low	5 4 1 Hig	Low	
MUCLAN HI 10230 HULLAN HI 10230 HULLAN HULLAN HULLAN HULLAN HULA	1297277) (d) 16962.51 16776.55 	2377.50 24/10 206.30 17/7	Tophi(V1/08) 1553.8 (4) 1557.57 1722.13 28 2ml Skrim(V1/58) 2028.28 (4) 2030.77 2257.48 27 Malleyenin NLSE Comp.(44/86) 1176.81 1177.07 1172.48 1128.54 30	1982.278 14/3	Home Books 103.19 103.16 103
And Age And Age <t< td=""><td></td><td></td><td>PCPlov 1975) (d) 3247.71 3253.82 3433.75 27. Netherland</td><td>and the second s</td><td>22/07 (18/1) (22/50/9 (18/1)) (22/50/9 (18/1))) (22/50/9 (18/1)) (22/50/9 (18/1)))))))))))))))))))))))))))))))))</td></t<>			PCPlov 1975) (d) 3247.71 3253.82 3433.75 27. Netherland	and the second s	22/07 (18/1) (22/50/9 (18/1)) (22/50/9 (18/1))) (22/50/9 (18/1)) (22/50/9 (18/1)))))))))))))))))))))))))))))))))
MUCLAN HI 10230 HULLAN HI 10230 HULLAN HULLAN HULLAN HULLAN HULA	1810.36 1802.18 (c)	1828.45 3/10 1874.30 2/1	086 Al Swijini 83) 307.8 395.5 398.9 408.30 22 New Zeeland	10 328376 2/1	DJ trd. Day's high 6068.05 (6062.67) Low 5861.30 (5675.34) (Theoretical)
MUCLAN HI 10230 HULLAN HI 10230 HULLAN HULLAN HULLAN HULLAN HULA	e(29/12/03) (d) 68685.0 69412.0 (din		Narway		Compositive: 708.73 708.77 705.27 710.22 596.45 714.22 4.40 577 1.25 1.2 17 2.5 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2
And Age And Age <t< td=""><td>A 5609.26 6591.31</td><td>5608,35 4/11 4738,70 15/1</td><td>Fhilippines Namia Comp(2/1/65) 2967.18 2978.14 (c) 3374.40 67</td><td></td><td>kohantniny 828.30 825.37 826.56 838.00 702.07 839.55 1.52 (2017) 2.56 - 2.58 - 4.57 5.10 5.3 - 1.58 - 2.10 1.5 1.6 - 2.10 1.5 1.5 1.6 - 2.10 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5</td></t<>	A 5609.26 6591.31	5608,35 4/11 4738,70 15/1	Fhilippines Namia Comp(2/1/65) 2967.18 2978.14 (c) 3374.40 67		kohantniny 828.30 825.37 826.56 838.00 702.07 839.55 1.52 (2017) 2.56 - 2.58 - 4.57 5.10 5.3 - 1.58 - 2.10 1.5 1.6 - 2.10 1.5 1.5 1.6 - 2.10 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5
And Age And Age <t< td=""><td></td><td>800135 8/1 8216.28 8/4</td><td></td><td></td><td>K/111) (10/11) K/11/M69 (K/M7/4) Company 1/25 +0.5 7/25 2.5 2.4 - frages, 150 - 1 7/2 94 0.0 - Matter 1/2 92 92 92 92 92 92 92 92 92 92 92 92 92</td></t<>		800135 8/1 8216.28 8/4			K/111) (10/11) K/11/M69 (K/M7/4) Company 1/25 +0.5 7/25 2.5 2.4 - frages, 150 - 1 7/2 94 0.0 - Matter 1/2 92 92 92 92 92 92 92 92 92 92 92 92 92
MUCLAN HI 10230 HULLAN HI 10230 HULLAN HULLAN HULLAN HULLAN HULA	nganSE(3/1/83) 443.30 442.20 442.31 id	454.20 21/10 398.40 2/1	South Africa		(18/10) (18/10/40) (25/4/42) FM 10 3/27 +10 3/20 2/37 0/7 18/3 (18/10) (18/10/40) (25/4/42) FM 0/0 Amerika (18/10/40) (25/10/10/10/10/10/10/10/10/10/10/10/10/10/
Communication Communic	•	2285.49 22/10 1851.57 10/1	JSE bal (28/9/78) 8146.49 6175.3 8194.1 \$739.30 25	T 7806.01 20/5	
Communication Communic	(31/1287) 2187.32 2142.15 (2)	2107.12 5/11 1007.05 11/1	XormCmp8c=(4/1/80) 733.86 747,42† 787,87 986,84 75 Spain		E RATIOS
Communication Communic	100(31/12/50) 938.29 834.07 938.76 100001(112/53) 2728.2 2714.0 2728.3	2782.40 18/10 2378.19 2/1	Sweden	Sec. Sec.	Nov 1 Oct 25 Oct 18 Year mgo Band 240 + 05 8 7 220 12 - 10758 70 + 1 147 57 22 - Sampig '270 - 38 1,07 1,08 15 Dow Jones Ind. Div. Yield 2.15 2.15 2.12 2.41 Hitsu 320
Communication Communic			Switzerland Switz Br. Ind 31/12/50 10 1784.57 1776.89 1812.19 15/	10 101619 17/1	S&P Incl. DN. yield 1.945 1.92 1.92 2.07 King 1.40 - 72 3.05 2.10 3.4 - Band 187 - 1 454 198 4.9 - 348 4.50 - 5 8 9 32.0 - S&P Incl. DN. yield 1.945 1.92 2.07 King 1.40 - 72 3.45 1.444 4.4 - Sanda 2.5 4.2 4.0 10 3.9 - 348 4.50 - 5 86 9 3.0 - S&P Incl. P/E made 22.50 23.15 23.15 17.89 Incl. 2 1.55 - 72 1.50 1.40 2.3 4.00 2.4 4.0 - 1 83 4.1 - 2 4.0 1
Communication Communic	Kong		SSC General(14467) (4 1267.29 1263.98 .1285.14 15 Talwan	10 · 114.47 261	HINTY YORK ACTIVE STOCKS II TRADING ACTIVITY HONDAN 6.00 +0.6 0.99 170 0.5 22.0 (Marmin 194 -1 4.4 190 25 - 20008) 100.50 -1 170 40 17 20 12 - 170040 30.60 -1 72 20 12 - 170040 30.60 -1 72 20 12 - 170040 30.60 -1 00 40 17 - 10040 30.60 -10
Communication Communic			Theliand		Honorey Subles Come Company Water Service Water A New 1 Oct 31 Nacion 1.200 + .05 13.65 10.06 5.05 18.2 saduel prize on day Water Service Water A New 1 Oct 31 Nacion 1.200 + .01 1.10 0.75 0.4 33 NORTH AMERICA Water 1.201 + .02 70 01.25 1.4 AT & T & 1/0 500 334
Communication Communic		CID.21 244 612.46 2/1	Turiory		Al & 1 4,170,500 33% 41% American 17,382 18,885 18,310 Howers 723 +02 7,78 6,03 0.4 6.8 CAMADA Wolknu 17 66 +05 20,75 15 2.4
22185/40 23182/30 22285/40/20 23182/30 2228/20/20 231/20 221/20 221/20 221/20/20 221/20		2700.04 4710 229LB1 271	WORLD		Fed Nati 3,729,000 37%>> NTSE OPSU 2,255 +.050 0.00 1.00 4.0 4 pm close MUTES - Notes to the page are or poted on the Papelico 3,404,000 23% ->> NTSE OF 1,253 3,253 2,274 Pactors 2.78 2.85 2,255 5.0 2.85 2,25 5.0 2.85 2,255 5.0 2.85 2,255 5.0 2.85 2,255 5.0 2.85 2,255 5.0 2.85 2,255 5.0 2.85 2,255 5.0 2.85 2,255 5.0 2.85 2,255 5.0 2.85 2,255 5.0 2.85 2,255 5.0 2.85 2,255 5.0 2.85 2,255 5.0
22185/40 23182/30 22288/306 22280/30/2 2221/2 100/			CROSS-BORDER Englack 100(25/10/90) 1758.99 1747.59 1748.23 1758.46 21/	19040 11/1	Control 3,335,100 83% -1% Ringe 1,337 1,161 1,471 Process 3.30 3.40 2.76 6.2 130368 Ababb 10.5 237 10 10.50 B. 2 Date of a second at the 2 Date of a second at th
Column Open Sett price Change High Low Est. vol.Open int. Interference		200100 20/6 1593420 13/3	Ema Top-100(28/090) 1493.75 1478.78 1479.33 1809.86 18/ HSBC JC Drgn(31/1248) (c) 361.31 389.84 362.46 18/	10 344.19 21	
Column Open Sett price Change High Low Est. vol.Open int. Interference			PRS UMORE BITTY (77,422) PM 137,73 186,65 738,91 4(7 -		Open Latest Change High Low Est. vol. Open Int. 00 2.47
Column Open Sett price Change High Low Est. vol.Open int. Interference		ich Low Est. vol.Open int.	OpenSettPrice Change High L		Dec 711.15 714.00 +2.75 715.20 710.75 57,442 181,406 forma 8.30 6.00 1.0 8.00 51 552 8.4 12 11.7 1552 907A 18 -45 12 10 10 10 10 10 10 10 10 10 10 10 10 10
2136.5 2197.5 146.0 22000 1100 12,078 211,000 2090.0 12,078 211,000 2090.0 2070.0 2080.0 12,078 211,000 2500.0 271 14,818 Traded Prices on day Traded Prices on day Traded Prices on day	G-40 (200 x Index)	AD 2147.5 17,890 18,653	Nov 1676.00 1698.50 +14.0 1695.00 1672		Open Sett price Change High Low Est, vol.Open int. I TOKYO - MOST ACTIVE STOCKS: Tuesday, November 5, 1996
785.0 3785.0 3785.0 3785.0 3785.0 3785.0 14, 728 Care based from the contrast for many for contrast for the	2158.5 2197.5 +46.0 220	0.0 2152.5 362 30,523	BOTTEX Nov 3758.0 3797.0 +42.0 3799.0 375	·	Dec 20/100 20500 -200 201400 20100 12,5/4 211,000 Stocks Closing Change Stocks Closing Change
		8.0 2688.0 17,959 - 6.5 2709.5 731 -	Dec 3785.0 3900.2 +48.0 3785.0 378	14. 728	Construction of the second of

416887

0,050 0,710 12,900 17,970 12,900 11,285 8,590 11,285 8,590 11,285 8,590 11,285 1,850 7,480 4,610 7,270 4,600 4,670 2,970 4,685 1,850 7,835 8,180 10,800 8,255 10,800 8,250 2,085 1,100 2,085 1,100 2,085 1,100 2,085 1,100

1,818 1,907 2,889 2,883 4,780 4,075 4,480 2,745

BCO FF BCPort BESNOT BenoTA AdodCaf PTalcon Sprint Linkow

20044000

203 3.50 03 7.05 1.1 0.10 1.5 3.56 04 10 43 6.59 4.7 0 3.4 10 43 6.59 4.7 0 3.4 17.20 0.7 4.55 1.1 17.20 0.7 4.55 1.1 13.90 0.1

12 1 12

an Gase November 5	NE	W YORK STOCK E		ES	· · · · · · · · · · · · · · · · · · ·	
Total N Sa Carbon git Lawr Sanch Hin % E 1000 Hight Lawr Sanch Hin % E 1000 Hight Lawr Sanch Hin % E 1000 Hight Lawr Sanch Hin % E 1000 2014 30.3 10.3 2014 2014 3.4 + 21 A + 3 3.4 + 21 3.4 + 21 3.4 + 21 3.4 + 21 3.4 + 21 5 3.4 + 21 5 3.4 + 21 5 3.4 + 21 5 3.4 + 21 5 3.4 + 21 5 3.4 + 21 5 3.4 + 21 5 3.4 + 21 5 3.4 + 21 5 3.4 + 21 5 3.4 + 31 1.5 21 4.5 1.6 3.5 1.6 3.5 3.4 -12 5 3.6 4.5 3.4 4.5 3.4	1966 Viel 97 Sin Chrise Prez. Night Law Standt Mis 3 6 1976 Might Law Schutz Chrise 33-4, 34 Baarings 0.64 2.4 13 115 274, 28-5, 27 +4; 47-5, 32 Backman in 0.52 1.4 17 247 28-5, 39-2 35-5, +4;	684 223 Cristian 201 32 18 618 6834 684 684 + 4 3	7006 Yal # 50 Carps Rep Law Statk Dr % 6 100 Map Law Date Prot. 241 184 Ges Instr 18 34 Datesco 17 818 85 84 24 45 45	1986 - Chan Ref High Low Stank. 20: 4. 8 1985 Map Low Stank City - 1	-0-	
(2)374,0464 140,3830,2822,283,3834,3834,454 μ,3834,2440646,6966 13,271,1354,513,503,513,513, (2)124,24644 htt 940 2.9,7 174 1375,134,1375, μ,132,24644 htt 935 2.1 17 225 1675,1672,1672,1842, μ,1373,40640 htt 935 2.1 7 225 1675,1672,1672,1842, μ,1373,40640 htt 935 2.1 7 225 1675,1672,1842,142,142,142,142,142,142,142,142,142,1	30~4 24 Bachman 10.05 1.4 17 267 255, 254, 27 4-6 454, 255 Bachman 10 055 1.4 17 267 255, 204, 27 4-6 454, 255, 286, 2010 0.46 1.0 27 2547 244, 455, 44 4-6 157, 127, 157, 127, 107, 178, 174, 154, 154, 155, 154, 154, 157, 157, 157, 157, 154, 107, 154, 156, 157, 177, 177, 174, 147, 147, 156, 165, 161, 147, 147, 156, 157, 177, 177, 174, 147, 147, 156, 165, 161, 147, 147, 156, 156, 161, 147, 147, 156, 157, 177, 177, 174, 147, 147, 156, 165, 161, 147, 147, 147, 147, 147, 147, 156, 165, 161, 147, 147, 147, 147, 156, 165, 161, 147, 147, 147, 147, 147, 147, 147, 14	4 1% C3 LUB % 0.12 0.8 3 30 7% 1% 1% 1% 1% 1% 234 C0000 100 11 322 1.84 17% 18 4 2 3 100 100 100 11 322 1.84 17% 17% 18 4 3 1 32 124 17% 18 17% 18 17% 19 19 10 2.1 32 100 2.1 31 100 2.1 3	8 % 2 % 600000 5 (3 251 3 % 3 2 3 1 2 % 2 % 2 % 2 % 2 % 2 % 2 % 2 % 2 % 2	37 15 1A Barr 1 128 27 27 27 24 24 20 20 18 & EEn 1.15 4.15 28 10 24 4 237 24 4 36 21 2 18 & EEn 1.15 4.16 28 10 24 4 237 24 4 29 11 24 13 4 13 4 24 13 4 13 4 10 2010 0.16 0.5 15 207 21 5 207 20 5 34 23 4 13 4 10 2010 0.16 0.5 16 207 21 5 207 307 1-4 34 23 7 10 2010 0.16 0.5 14 23 357 307 307 1-4 24 32 10 10 2010 0.16 0.5 14 23 357 307 307 1-4	$9J_8$ 6 6 H M Crp 10 128 $7J_2$ $7J_4$ $7J_2$ $-J_3$ 33 18J_4 Out inda 13 723 23J_2 33J_3 33J_3 34J_4 + J_4 30J_4 18J_6 Out inda 20.06 0.2 18 4687 28J_2 24J_2 24J_3 + J_4 27J_4 20J_6 Out P 1.00 4.2 17 1017 24J_4 23J_6 2J_7 J_4 25J_5 12J_6 Out P 1.00 4.2 17 1017 24J_8 13J_4 13J_6 + J_8 23J_6 17J_6 Out P 1.25 65 73 079 18J_4 17J_6 18J_4 4J_8	
¹ / ₂ θ ¹ ₄ ACM Getts 0.00 8.8 8 302 318 ³ / ₂ 10 ¹ / ₃ 18 ³ / ₈ + ³ / ₃ ² / ₃ θ ¹ / ₂ ACM GAUOD 0.557 79 2004 71/ ₉ 7 71/ ₄ + ¹ / ₃ ³ / ₄ θ ³ / ₃ ACM Man 0.00 0.2 883 46 ³ / ₄ 91/ ₂ 6 ³ / ₈ + ¹ / ₃ ³ / ₈ θ ¹ / ₄ ACM Man 0.30 0.2 883 46 ³ / ₁ 71/ ₂ 7 ³ / ₃ 7 ³ / ₃ + ¹ / ₄ ³ / ₂ 13 ³ / ₃ ACM Man 12 35 18 ³ / ₁ 18 ³ / ₁ 10 ⁴ / ₄ + ¹ / ₄	32 244 04000 0.46 1.0 10 206 304 304 304 4 10	54, 50% (258)* 105 1.8 14 30 542, 543, 544, 34 3 13 10% (27.8st) 100 6.6 10 11 24, 125, 125, 125, 126 3 13 10% (27.8st) 1.00 6.6 10 11 24, 125, 125, 126, 124, 125 1 148, 148, 105, 148, 145, 148, 145 164, 948, (29.95%) 18 2522, 211 149, 105, 148, 145 14 294, 1056, 148, 145 14 214, 125, 125, 125, 126, 124, 124 14 214, 126, 126, 126, 126, 126, 126 14 214, 126, 126, 126, 126, 126, 126 14 214, 126, 126, 126, 126, 126, 126 14 214, 126, 126, 126, 126, 126, 126 14 214 214, 126, 126, 126, 126, 126 14 1	174 13 6 orbor 53 0.22 2.3 16 1236 14 139 137 + + 13 11 6 ormany Fot 0.12 1.0 463 127 121 121 121 - + 174 124 (chromen For 0.12 0.2 19 12 174 17 17 175 74 124 (chromen For 0.12 0.2 19 12 174 17 17 175 74 124 (chromen For 0.12 0.1 3 16 34 154 154 154 175 424 (chromen 0.20 1.3 16 34 154 154 154 154 65 745 745 74 - 4 57 66 Gaambard 0.03 0.3377 652 74 75 75 75	217 184, Lutarge 0.40 2.1 10 227 19 184, 184, 184, 147, 174, 175, 184, 184, 184, 184, 184, 184, 184, 184	346 1944 000201 1.00 7.1 16 3051 214 2070 214 44 66 52 0002544 4.40 75 2 56-2 56-5 56 - 1 65 50-2 0006455 455 7.9 1 572 56-2 572 44 4376 5572 000450 562 2.68 0.7 12 367 4832 3944 40 44 264 20 0004000 216 34 19 6 500 23 255 255 44 46 30 000400 216 34 13 752 424 42 42	
14 274 Acontria 0.72 2.5 14 39 2375 235 235 235 14 224 15 225 14 225 14 225 14 225 14 225 14 225 14 225 14 225 15 225 15 225 15 225 15 225 15 225 15 15 15 15 15 15 15 15 15 15 15 15 15	1220 000 Bendel 13 1000 1005 1007 +11 1215 6-1 Banny Potr 0.40 3.3 16 150 1214 12 1214 -14 2614 12 Bent Barny 16 2214 1914 152 18 -15 3014 2415 Bent Bar 250 9.5 28 2814 2514 2514 -51 3014 2415 Bent Bar 2 550 9.7 4 514 711 713	- D - 251- 373- 091 M45 1.00 53 14 1183 243 241 241 241 4	22 ¹ / ₂ 23 ¹ / ₄ (Bound * 0.06 1.1 20 6460 31 ⁵ / ₅ 31 ⁴ / ₅ 31 ³ / ₅ 1 ³ / ₅ 1 ³ / ₅ 2 ⁴ / ₆ 41 26 ³ / ₅ (Bancon Co. 0.50 1.5 4 403 31 ⁵ / ₅ 30 ³ / ₅ 51 ⁴ / ₅ 51 ⁴ / ₅ 1 ⁴ / ₅ 51 16 Bouh Int 9 403 1 ⁵ / ₅ 1 ⁵ / ₅ 1 ³ / ₅ 1 ³ / ₅ 1 ³ / ₅ 1 ³ / ₅ 19 7 ³ / ₅ Gouhai Mar 36 2544 16 17 ⁵ / ₅ 16 - ¹ / ₅ 60 40 9 ³ / ₅ ²⁵ / ₅ 0.35 0.5 18 1215 6 ⁴ / ₄ 63 ⁵ / ₅ 64 ⁴ / ₄ + ¹ / ₅ 61 40 9 ³ / ₅ ⁴⁵ / ₅ 0.35 0.5 18 1215 6 ⁴ / ₅ 43 ⁵ / ₅ 64 ⁴ / ₄ + ¹ / ₅	241-2 191446 1999 10.48 22 18 2119 224, 213 229 4-4 341-2 251-2 193 10.000 10.51 15 31 3540 4311 2312 3412 + 321-2 251-2 10.000 10.41 18 20 396 43012 30 3012 +5 3712 2515 10.000 50 10 10 10 10 10 10 10 10 10 10 10 10 10	375 1912 01221 0229 1.2 14 4451 213 214 214 375 1912 01221 029 0.2 441140 274 254 224 114 50 392 000000 100 224 254 224 114 187 144 00000 100 217 175 475 476 474 475 -4 187 144 00000 100 52 1.5 9 138 15 142 147 475 -4 287 204 00000 1 100 452 15 542 254 254 14 347 284 00000 1 20 258 7.9 8 139 337 331 332 334 +4	
¹ / ₂ 41 ² ₁₉ Action 145 2.8 18 32 52 ⁵ ₁₉ 52 ¹ / ₄ 68 ¹ / ₂ + ¹ / ₉ ¹ / ₄ 3 ¹ / ₂ Action 3 1372 4 ¹ / ₂ 4 ¹ / ₂ 4 ¹ / ₂ 4 ¹ / ₂ ² / ₅ 5 ²⁵ / ₅ Action 2 0.05 12 06906 66 ¹ / ₄ 68 ¹ / ₂ 85 ⁵ / ₅ ¹ / ₅ 30 ² / ₄ Attach ² / ₈ 640 1.0 17 4124 441 ¹ / ₈ 40 ⁷ / ₉ 41 ¹ / ₂ - ³ / ₉ ¹ / ₄ 17 ¹ / ₉ Attach ² 840 1.0 15 5.1 17 550 21 ³ / ₉ 21 ¹ / ₉ 21 ¹ / ₄ ¹ / ₂ 21 ¹ / ₄ Attach ² 0.5 ² / ₂ 20 ² / ₉ - ³ / ₉	54 ¹ / ₂ 40 ¹ / ₈ Bizhm x 1.50 2.8 22 1151 154 ¹ / ₂ 53 84 ¹ / ₂ +1 ⁵ / ₈ . 12 ⁵ / ₈ 0 ¹ / ₈ Berlint 75 2462 12 ¹ / ₈ 13 13 -1 ₈ 18 14 ¹ / ₂ Binningus 5× 0.40 2.5105 239 15 ² / ₈ 15 ¹ / ₈ 16 ² / ₉ 4 ¹ / ₈ 373 Binning 0.44 13 32 59777 332 331. 331. 4	354 274 Danael 100 3.3 9 157 30 287 28 28 4 47 284 Danater Co. 18 8 0.2 12 1988 407 407 401 44 16% 1242 Danater Co. 18 1.4 68 467 175 12% 124 4 14 72 Derden 0.05 0.9 12 5720 5% 5% 9% 4 15% 9 Darate Co. 19 12 5720 5% 5% 9% 4 16% 14 14 14 14 14 14 14	23 41/2 (Bayest 1.00 2.1 11 2425 483, 483, 483, 483, 473 7% 44 508cr38, 630 50 2.2 189 9% 57, 8 +4 56/2 37% 6701 1 1.9 57 14 2541 34 335, 337, 44 59/2 37% 6701 1 1.9 57 14 2541 34 335, 337, 44 59/2 37% 6701 1 1.9 57 14 2548 784, 54% 54% 54% 73% 62% 67021 1.0 15 18 2548 784, 74% 77% 54% 31% 13 67020 13 10 17% 17% 17%	64 55 45 412 412 412 412 412 412 412 412 412 412	Sing 20% (ppm) to 5 0.00 0.0 132 16 97, 16 -1 167, 92, 00, 00, 00 0.0 0.0 132 16 97, 16 -1 92, 72, 00, 00, 00, 00, 00 0.0 193 74, 74, 74, 74, 74, 74, 74, 74, 74, 74,	
Solly Arthon: 1.18 1.7 14 322 2683 24.3 85 +14 . 1919 Arthon Pet 0.30 1.5 14 112 30 194 20 +14 . 1919 Arthon Pet 0.30 1.5 14 112 30 194 20 +14 . 1919 Arthonese 10 1.5 16 123 224 23 +16 .	36 ³ 22 ³ Slout A 0.51 1.4 12 616 36 ³ 35 39 + ³ 6 ⁵ 7 ¹ 28 w Chip 0.12 1.3 258 w 5 8 ³ 8 ¹ 2 8 ¹ 2	27 1 1000 1 20 20 20 20 20 20 20 20 20 20 20 20 20	25-14 15-14 Brotenines 10 1277 141- 141- 141- 141- 12 25-14 6 Meet 1.00 13:22 407 307- 307- 305- 305-171- 2047 120 6.6 17 1043 31-1- 30 31 + 1 725-460-16 1.00-25 0.48 0.9 11 2540 521-514, 514, -1- 511-2 44 62 Meb m 5.50 11.0 8 13 51 562-503- 521-273-274-574-574 -74	191 16 ¹ / ₂ Licco MiHel 372 14.6 16 181 162 185 14 652 551 Long L MB 5.00 6.3 2 60 60 65 515 405 Licco L MB 5.00 6.3 2 60 60 515 405 Licco L MB 5.00 6.3 12 61 754 455 465 451 2054 Licco 4.68 1.1 26 1354 425 405 405 54 35 Licco 407 152 11.9 0 0 41 2 45 45 54 35 Licco 45 10 1.8 15 285 265 695 695	2175 1425 0000000 0.40 35 05 1903 1534 1539 1534 +19 2039 16 00-0516 0.60 2.5 28 231 172 174 1749 +19	
17% Albasavint 0.40 1.7 15 27 022% 22% 22% 2% +% 14% Albasavint 0.40 1.7 15 27 022% 22% 22% +% 14% Albasavint 0.28 1.7 5 370 10% 10% 16% 4% 23% Albasavint 0.28 0.9 178 45% 46% 46% 4% 23% Albasavint 0.28 0.9 17 181 50% 23% 23% 23% 4% 31% Albasavint 0.50 17 181 55% 35 34% 35 4% 23% Albasavint 0.50 17 181 55% 35 34% 35 4% 23% Albasavint 0.50 17 181 55% 35 34% 35 4% 23% Albasavint 0.50 17 181 55% 35 34% 35 4% 23% Albasavint 0.50 17 181 55% 35 34% 35 4% 23% Albasavint 0.50 17 181 55% 35 34% 35 4% 23% Albasavint 0.50 17 181 55% 35 34% 35 4% 23% Albasavint 0.50 17 181 55% 35 34% 35 4% 23% Albasavint 0.50 17 181 55% 35 34% 35 4% 23% Albasavint 0.50 17 181 55% 35 34% 35 4% 23% Albasavint 0.50 17 181 55% 35 34% 35 4% 23% Albasavint 0.50 17 181 55% 35 34% 35 4% 23% Albasavint 0.50 17 181 55% 35 34% 35 4% 23% Albasavint 0.50 17 181 55% 35 34% 35 4% 24% 35% 35% 35% 35% 35% 35% 35% 35% 35% 35	98% 74% 698mg 1.12 1.2 35 5780 94 52% 82% 1.3 47% 23% Bates 0.60 2.1 42 6869 30% 2054 29 -1% 11% 4% Batesbay 25 28 680 5% 2% 5% 5% 5% 15% 6% Batesbay 25	CD 33 DEETE 0.08 20 151 00 3 40 7 40 7 40 7 40 7 40 7 40 7 40 7	2242 2252 Green AFP 212 (110) 109 2242 2253 2254 4212 23 Britmania 0.20 0.710 4777 4073 3844 4054 112 4252 25 Britmania 0.20 15 18 3056 44554 474 4454 112 1942 74 Green Spin 0.42 3.5 849 912 12 13 12 12 14 1244 1254 Green Spin 0.42 3.5 849 112 13 12 12 14 945 214 Distance Spin 0.42 3.5 849 112 13 14 14 14	29 424 12250 Co. 1281 2,1 22 970 55 5 572 573 -4 894 772 12985 100 12 5 3486 823 818 823 +4 433 254 109200 0.20 85 16 61 40 394 393 -4 194 157 1292 11 170 9.5 8 604 0154 157 184 +4 463 377 129217 1.12 2,4 19 354 484 474 472 194 143 129217 1.12 2,4 19 354 484 474 472	- P - Q - 23 225 PM 125 42 12 105 30 234 33 - 1 2	
27% AucoST 0.56 12 33 3084 403, 45% 46 +4, 38% AucoST004 100 1.7 6 1511 53 38% 25% +2% 13% AucoM 818 0.7 23 681 15% 14% 14% -4, 28 AucoP 1.58 5.5 18 672 30% 30% 30% +2 15% AucoT 0.56 3.0 15 3036 21%, 35% 21% -4, 16% AucoT 0.20 19 20 4534 21 20% 23% -4, 14% AucoT 0.20 12 17 1759 16% 16% 25%	474 37/2 Bornati 0.60 2.3 5 774 35 34/2 344 264 284 Branito 1 44 6.2 638 217 214 214 274 174 Berenz 1 32 5.8 30 56 123 2 224 223 14 - 2 28 1 1 1 Bored 7 0.28 1.2 11 371 24 234 234 - 4	34 % 25 04mnord 50 0.55 1.8 16 376 22% 25% 25% 4.8 2 114 11% 04mm 20mp 33 1644 33% 31 21% 4.9 2 60% 33% District 0.66 1.2 30 694 57% 37% 3% 2.% 4. 78% 2.% 50% 53% 53 23% 4.4 14% 27% 50% 53% 32 23% 4.4	79-14, 32-14, 6ueci 6.00, 0.4.33 3391 76-14, 74-1, 74-12, -14, 25-1 ₉ 19-12 <u>Seminari M</u> 0.680 2.5 11 171 23-14, 23-14, 23-14, +3-15 - HI-	83% 33% Looket 624 0.4 32 2538 55% 55% 55% 44 20% 19% Looket 6.56 27 14 3512 31% 25% 91% 44 65% 25% Looket 20 0.5 27 415 41% 40% 75% 47% 41% 15% 18LTV# 912 1.2 1817066 18% 10% 10% 5% H LTV#8 31 25% Looket 1.00 3.4 11 657 23% 23% 23%	142, 64, 65, 65, 65, 66, 74, 120, 61, 142, 145, 144, 145, 144, 145, 144, 145, 144, 145, 144, 145, 144, 144	
300A4mmpan 0.52;1.628;7743 22;314, 32;41 213,440405 239 2:10 78;12;965;274, 274, 274, -59 18,40426 13;618;1.4 43;134,134,134,+4, 234,A11514, 1.38;3.31;12;12;0397,334;2305,+4, 475,44530;8,630;13;1911308;869,675,685,+12, 244,4446,446,11133;234,234,234,234,24,24,44,446,11133;234,234,234,234,234,234,234,234,234,234,	1104, 1764, 1814)531 3.00 2.1 27 (402341104, 1084, 1085)2 (-55)2 64/3 72 (54 174) 2.1 18 2.4 12 85 93/5 91/5 9273 (+273) 41/5 26 Brt Gast 2.38 7.4 20 109 32/5 3724, 3274 1273 94/5 87 Prushor 2.33 13.0 18 226 1873 1874, 1874, 1874	897 15% Discovy 0.44 0.7 34 0078 675 664 675 + 4 434 337 Dourfd 840 1.0 18 2082 396 194 394 395 4-5 44 307 Dourfd 840 1.0 18 2082 395 50 395 304 395 4-5 87 64 Dourfden 10: 625 28 5 185 34 64 84 84 84 19	31 10 5 9 HK 11 40 Ft 888 5 2 14 611 17 5 17 17 - 4 18 12 13 4 HE Proper 122 60 8 42 15 5 14 4 15 4 - 4 9 33 4 44 14 14 15 4 - 4 9 14 5 6 4 16 10 1 1 2 2 6 6 5 2 5 1 5 5 4 2 5 5 1 5 - 4 14 5 6 4 16 10 1 1 2 2 6 1 9 6 5 4 1 5 1 5 1 5 16 4 1 4 2 17 0 5 1 6 1 2 2 6 1 9 20 15 4 15 15 16 4 1 4 2 17 0 5 1 6 1 2 2 6 1 9 20 15 4 15 15 15 10 1 9 17 0 5 16 1 2 1 2 1 1 9 20 15 4 15 15 15 10 1 9 17 0 5 16 1 2 1 2 1 1 9 20 15 4 15 15 15 10 1 9 17 0 5 16 1 2 1 2 1 1 9 20 15 4 15 15 15 10 1 9 17 0 5 16 1 2 1 2 1 1 9 20 15 4 15 15 15 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	214 224 124405 Cate 0.76 3.4 13 652 224 224 224 31 234 1460476 0.80 0.6 4027373 504 464 68 4 234 135 1460476 0.80 0.6 4027373 504 464 68 4 224 554 1460486 0.32 0.0 22 0.7 624 52 684 4 253 164 146048 18 122 0.7 28 6 6 224 52 224 4 253 164 146048 18 122 0.7 1204 224 52 1004	234 102 2025 195 0.5 12 2013 234 234 34 4 354 255 PTates 218 0.4 131039 344 332 24 14 4 244 175 Penet 4 254 155 Penet 5 254 155 Penet 5 254 255 Penet 5 254 255 Penet 5 254 255 254 252 254 255 254 252 254 255 254 255 254 255 254 255 254 255 254 255 254 255 254 255 255	
374,4044 078 1.4 13 87188 56 55%,55% + 4,8 5%,40490 (70) 119 3.5 20 1242 31Å, 30Å, 31Å, + ½ 3%,40x4aste 17 790 4Å, 4Å, 4Å, 4Å, 4Å, 1%5%,40x4aste 17 790 4Å,	913, 494, 67 3.06 5.1 12 8307 814, 594, 604, -14, 304, 247, Biolynti 1.42 4.8 11 515 304, 233, 204, -4, 233, 117, Bruncho, 1.00 46 43 200 21 204, 204, -4, 134, 64, Bruncho, 1.00 46 43 200 21 204, 204, -4, 134, 64, Bruncho, 1.02 2.8 17 285 114, 115, 114, -4, 444, 344, Bruncho, 1.34 2.5 10 34 4444, 444, 444, 44, -4, 454, 354, Bruncho, 1.04 2.5 10 400 4654, 444, 444, -4, 454, 354, Bruncho, 1.04 2.5 10 400 4654, 444, 444, -4, -4, -4, -4, -4, -4, -4,	284 204 Decempina 0.48 19 13 181 224 255 257 1 31 224 DOE 128 43 12 1569 237 232 237 4 154 114 Decem 0.52 44 19 79 144 14 3 37 224 Decempina 0.52 44 19 79 144 14 1	1/10 0 <td>- 164 - 913, 791954 boz 1.52 1.7 12 2970 813, 853, 583, 1 253, 215, 2024, 937 2.0 18 343 273, 273, 272 -4</td> <td>444 513 5 Pandelm 8.72 1.9 11 1256 385 374 374 -5 377 25 Pandessin 13 1052 335 334 335 33 - 3 324 33 Pandelm 10 8.8 12 6438 355 23 256 -4 524 23 Pandelm 10 8.8 12 6438 355 25 256 -4 52 4 00 Pandel 1 8 12 6438 35 26 26 27 51 44 Dament 2 04 38 12 6438 35 26 25 26 25 51 44 Dament 2 04 38 12 6438 35 26 25 26 25 51 40 Dament 2 04 38 12 6438 35 26 25 26 25 51 40 Dament 2 04 38 12 6438 35 26 25 26 25 51 40 Dament 2 04 38 12 6438 35 26 25 26 25 51 40 Dament 2 04 38 12 6438 35 26 25 26 25 51 40 Dament 2 04 38 12 6438 35 26 25 26 25 51 40 Dament 2 04 38 12 6438 35 26 25 26 25 51 51 51 51 51 51 51 51 51 51 51 51 51 5</td> <td> ·</td>	- 164 - 913, 791954 boz 1.52 1.7 12 2970 813, 853, 583, 1 253, 215, 2024, 937 2.0 18 343 273, 273, 272 -4	444 513 5 Pandelm 8.72 1.9 11 1256 385 374 374 -5 377 25 Pandessin 13 1052 335 334 335 33 - 3 324 33 Pandelm 10 8.8 12 6438 355 23 256 -4 524 23 Pandelm 10 8.8 12 6438 355 25 256 -4 52 4 00 Pandel 1 8 12 6438 35 26 26 27 51 44 Dament 2 04 38 12 6438 35 26 25 26 25 51 44 Dament 2 04 38 12 6438 35 26 25 26 25 51 40 Dament 2 04 38 12 6438 35 26 25 26 25 51 40 Dament 2 04 38 12 6438 35 26 25 26 25 51 40 Dament 2 04 38 12 6438 35 26 25 26 25 51 40 Dament 2 04 38 12 6438 35 26 25 26 25 51 40 Dament 2 04 38 12 6438 35 26 25 26 25 51 40 Dament 2 04 38 12 6438 35 26 25 26 25 51 51 51 51 51 51 51 51 51 51 51 51 51 5	·
24 Aug Cp 4 25 1004 30 25% 25% 4.2 5½ Aug Counce. 0.42 7.0 251 82% 6 6 10% Aun Proces 0.255 1.7 19 194 и14% 14% 44% 44% 5½ Aunaccial 0.08 15 33 1382 55% 55% 55% 4% 15½ Aunaccial 0.08 11 3 404 463% 80% 68% 41% 15½ Aunaccial 856 2.7 11 173 30% 20% 20%	227 27.1 Birfarr 0.68 2058 3158 26.5 24.4 26.4 -4.5 25 24.9 Birt 22 32 8.6 8 -4.5 247 17.4 Birtawick 0.50 2.0 12 2075 24.3 24.4 24.2 -4.5 267 17.4 Birtawick 0.50 2.0 12 2075 24.3 24.4 24.2 -4.5 267 17.4 Birtawick 0.50 2.0 12 2075 24.3 24.4 24.2 -4.5 267 17.5 Birtawick 0.50 2.0 12 2075 24.3 24.4 24.7 17.6 17.6 -4.5 267.5 17.5 Birtawick 17.7 17.7 17.7 17.7 17.7 17.5 26.3 25.2 26.4 -4.5 394.5 24.4 Batteries 17.7 9 91 55.7 36.3 26.2	374 275 07E 578 206 0.5 14 3418 31 305 37 45 57 57 58 50 50 50 50 50 50 50 50 50 50 50 50 50	57 38 Handba 0.72 1.4 22 2201 505 449 40 40 4 12 215 20 4 Katabal 1.02 31.3 11 43 31 4 31 4 4 4 69 2 20 4 Hotoy Der 0.20 0.4 25 1590 459 449 449 459 - 3 4 59 2 22 Handba 0.20 0.4 15 169 559 509 60 4 50 4 1 50 2 25 16 Handba 0.20 0.4 15 169 579 509 40 4 50 2 16 4 Handba 0.20 0.4 15 169 579 40 4 50 2 16 4 Handba 0.20 0.3 116 15 179 16 4 174 + 2 50 2 16 4 Handba 0.2 0.3 116 179 16 4 174 + 2 50 2 16 4 Handba 0.2 0.3 116 179 16 4 174 + 2	75 57 MOC Hedge x 0.12 1.8 0 590 71 74	4315 3651 PlantEnt 2.20 5.1 51 10 43.3, 434, 434, 435, 4-1, 5952 3051 PlantEnt 2.20 5.1 51 10 43.3, 434, 434, 435, 4-1, 5952 3051 PlantEnt 1.00 2.8 01534 5052 3051 5054 -1, 5052 3051 5055 305555 305555 305555 305555 305555 305555 305555 3055555 30555555 305555555 3055555555	
7 ¹ 2 Annukshis 968 1.1 18 2411 544 534 537 - 4 973 Annukshis 968 1.1 18 2411 547 54 485 - 45 16 Ann Bus Pari 0.58 2.6 15 24 25% 534 2212 85% AnnEPtr 2.40 5.7 13 2801 424 425 424 425 + 4 55% AnnEptr 6.90 1.8 14 10775 484 47 474 485 + 4 2% AnnEptr 1.30 3.5 15 1254 374 31 374 + 4 4 Ann Carvin 1.30 3.5 15 1254 374 31 374 + 4 4	404, 72 kg Suntil 120 14 37 2537 644, 433° 64 + 12 51 35° g Burtin Resc. 0.000 1.1 22 2017 503 g 30 30 13 94 Burtin Resc. 0.000 1.0 5 4.0 14 420 12° m 12' μ 12'	201 71 D00 21 21 25 21 25 21 25 21 25 21 2	867 664 maaco 1.22 23 18 346 644 645 644 647 647 44 22 18 4 18 4 19 10 10 10 12 72 22 22 243 347 4 22 4 28 4 19 10 10 10 10 12 72 22 243 347 4 64 54 14 10 10 10 10 12 16 20 437 424 44 45 64 54 14 10 10 12 16 20 44 45 16 10 14 10 14 10 12 12 12 12 12 12 12 12 12 12 12 12 12	11 g 75 utabayeta F 0.05 0.2 193 164, 18 155 g +4 44 g 35 g Martar 0.22 14 16 1813 044 g 43 g 44 g +3 43 g 15 g Martar 0.22 14 16 1813 044 g 43 g 44 g +3 25 g 15 g Martar 0.00 0.3 20 1136 028 g 25 g 26 g +4 43 25 g Martar 0.00 0.3 20 1136 028 g 25 g 26 g +4 43 25 g Martar 0.00 0.3 20 55 24 75 5 4 3 3 g	904, 2015, putples 0.00 2.3 0.05 2.3 0.05 2.3 0.05 2.3 0.05 2.3 0.05 2.3 0.05 2.3 0.05 2.3 0.05 2.3 0.05 2.3 0.05	
12, Acn Hitch Fra. 5.05 23.4.18 7025 31-12, 21-18, 31-18, -18, 19 Ann Hamitger 6 76 3.4.11 254 22-18, 21-76, 22-14, 47 Annhome 164 2.7 2722503 22-12, 66076, 61-18, +1-14, 14, Annhome 8.40 28.18 7022/m1059, 102-18, 102-18, 103-18, +1-2 14, Annhome 8.40 28.18 7022/m1059, 102-18, 103-18		294 224 Dynamics 0.20 0.7 11 67 284 284 284 24 1	1575 3024 Handt Car 2.33 6.6 17 696 13579 3579 3579 3574 -49 145 678 Hinterp 4 0.12 1.0 18 130 1255 125 125 125 1475 678 Hinter 9 18 1201 124 12 124 -49 1875 519 Handbacks 18 22601 3579 3549 3549 -59 14. 35 Handbacks 12 2601 3579 3549 3549 -59	37 1/2 28 1/2 1400 000 0.600 1.9 28 1.381 4.31 1/2 37 1/2 7 5 161 mm 0.200 47 28 18 6 1/2 87 8 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	43 283 Phillipsel 0.02 2.3 18 3455 353 354 355 355 354 345 444, 314, Phillipsel 0.02 2.3 18 3455 355 354, 334, 33 1472 812, Phillipsel 0.15 13, 365 515 114, 114, 114 61, 342, Phillipsel 0.20 3.3 11 137 64, 8 8 -4, 254, 2042, Phillipsel 0.20 3.3 11 137 64, 8 8 -4, 254, 2042, Phillipsel 0.20 3.3 11 137 64, 8 8 -4, 174, 194, Phillipsel 0.16 1, 15 210 144, 345 244, 245 245 174, 194, Phillipsel 1.16 4.5 13 280 144, 14 14 -4,	
7% Am Whatr × 0.70 3.5 15 226 20% 20% 20% 20% 4 3 4 5 26 10 27 36% 36% 36% 36% 36% 36% 36% 36% 36% 36%	534 824 054 104 24 85 50 452 422 44 -4 47 36 015 0arp 0.72 1.7 11 11 424 42 42 -4 574 88 01648446 64 25 18 664 237 234 234 874 83 0464846 64 25 18 664 237 234 234 314 334 02664846 50 14 9 1468 254 045 632 43 194 334 02660 065 618 1005 38 184 157 16 44	11 6 ¹ / ₄ EDC int 0.20 27 50 64 7 ¹ / ₉ 7 ¹ / ₄ 7 ⁵ / ₉ 3 2 ³ / ₂ 16 ⁴ / ₄ 654.6 0.96 2.1 12 2056 18 ¹ / ₄ 16 16 ¹ / ₉ 3 5 ¹ / ₂ 14 ³ / ₄ 5.0 mm 6 6 22 112 11 ₉ 11 ₉ 15 05 ¹ / ₂ 23 ¹ / ₉ 5.0 mm 0.20 84 24 246 453 ¹ / ₉ 53 ¹ / ₂ 53 ¹ / ₂ 53 ¹ / ₂ 2 ³ / ₉ 16 ¹ / ₉ 15 ¹ / ₂ 53 ¹ / ₂ 5 ³ / ₂ 1 ⁴ / ₈ 5 2 ⁴ / ₂ 14 ¹ / ₂ 5 mm 1.00 161 161 165 16 ² / ₈ 15 ⁴ / ₉ 15 ¹ / ₂ 3 ³ / ₂ 1 ⁴ / ₈ 5	Min 125, Habbaharya 0.22 21 19 2144 135 an 22 5 13 2 47 1357, 234 Habbahary 0.22 21 19 2144 135 an 22 5 13 2 47 1357, 234 Habbahar 0.23 10.41 (32 22 5 19 5 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	223 225 14 10 20 20 20 20 20 20 20 20 20 20 20 20 20	154, 107, Planeter 0.33 2.2 134 134, 15 154, 44, . 94, 64, 74, 76, 76, 76, 77, 76, 77, 76, 77, 76, 77, 76, 77, 77	
18 Ampconit 8,18 0.0 18 22 123 124 124 - 4	44 2 17 5 Canned Spin 25 553 34 2 37 7 6 44 4 4 2 22 12 14 4 Caffed Bop 22 557 32 23 5 22 4 23 4 23 13 Caffed Bop 20 8 8 28 23 24 24 4 4 30 15 2 Categority 15 197 30 2 30 4 30 4 4 4 14 2 8 2 Categority 15 197 30 2 30 4 30 4 4 4 14 2 8 2 Categority 12 18 18 18 18	80% 05% 05% 05% 01% 01% 02% 01% 05% 05% 05% 05% 05% 05% 05% 05% 05% 05	222 84 Holeman 4 0.00 2.0 11 1422 1123 1173 1174 448 8 73 N 144 Inc 0.071 112 48 73 74 74 94 82 N 176 Pers 0.66 95 40 4 873 873 874 72 165 Holyadatas 1 3 20 183 20 14 112 Holyadatas 0.66 4.8 14 22 1222 1234 1232 44 14 112 Holyadatas 0.66 4.8 14 22 1222 1234 1232 44 103 1154 Holemana 0.66 1.0 30 1570 637 305 305 44 31 154 Holeman 1.0 30 1570 637 305 305 44	30 21% Matchel 0.24 8.8 2310545 0.09 28 23% 4-4 20% 12% Maxam 28 187 13% 12% 12% 12% 21% 12% Maxam 28 187 132 43% 45% 4-4 22% 17% 18% 0.058 2.8 17 1573 20 18% 18% 4-4 25% 27% 17% 18% 0.058 2.8 17 1573 20 18% 13% 25% 27% 18% 0.058 1.8 21 4445 20% 38% 33% 25% 27% 14% 0.028 1.4 22 48 28% 27% 27% 42%	144 122 100000 11 015 0.2 57 124 134 134 134 364 473 10000 135 0.2 57 124 134 134 134 364 473 10000 135 0.2 518 3351 565 552 564 +1 224 224 124 1000 12 03 5064 245 244 -4 305 21 1000 12 03 5064 245 24 14 +1 194 77,2 10000 10 10 11 15 115 115 275 225 1000 1658 2.04 7.7 13 465 252 255 255 +1	÷
Anachtal 6 30 85 82	34-1 16-2 Champen 1 0.04 0.6 17 1640 304 26-41 30 4-7 19 16 Contactor D. 000 22 24 101 165 1614, 164, 1-4 844, 35 Campets 1.38 1.7 22 5179 613, 603, 814, 4-4 1-2, 15 Campet Rs. 18 623 14, 1 14, 14, 254, 185, Camper B. 0.33 1.3 21 5541 254, 243, 254, 1-5 344, 214, Camper B. 0.33 1.3 21 5541 254, 243, 254, 1-5 344, 214, Camper B. 0.33 1.3 21 5541 254, 243, 254, 1-5 344, 214, Camper B. 0.33 1.3 21 5541 254, 243, 254, 1-5 344, 214, Camper B. 0.33 1.3 21 5541 254, 243, 254, 1-5 344, 214, Camper B. 0.33 1.5 21 5541 254, 243, 254, 1-5 344, 214, Camper B. 0.33 1.5 21 5541 254, 245, 254, 254, 254, 1-5 344, 214, Camper B. 0.33 1.5 21 5541 254, 245, 254, 254, 254, 254, 254, 254,	307 2212 5498751 0.54 21 9 1450 307 254, 302 +1 9 54 34 680 6700 0.05 24 3 950 312 654 33 14 34 22 806 ADR 21 9995 277 27 273 +1 1 34 22 806 ADR 21 9995 277 27 273 +1 2 254 194 807 207 0.25 14 16 109 167 194 174 14 804 404 605 0.00 13 2095 494 457 46 +1	0776 39 Hauchi 0.25 89 24 '50 004, 90 004, 44 98 98-μ 11/2 Hundbap 0.20 64 31 0254 54 35 354 54 μ + 2 576 8 House Stop 75 277 16-μ 15-μ 15-μ 15-μ 275 13-μ House Stop 75 277 18-μ 14-μ 14-μ 14-μ 275 13-μ House Stop 87 17 33 15 23 24 24 44 44 45 50 40-1 House Mar 0.29 53 4 6 57 57 4 7 4-μ - 1-μ	2014 2552 McDerrol2 2 220 8.1 14 274, 274, 274, 274, 274, 275, 275, 275, 275, 275, 275, 275, 275	160μ 11/2 PAGEMER X 0.12 1.00501 351 12 11% 11% -λε 560μ 30% PAR 650 0.20 0.3 15 513 580μ 37 580μ 4-7 37% 27% PAG 630 1.40 3.5 25 6865 137% 560μ 35% -λη 45% 24% Page Part 0.12 9.3 84 1024 442 43% 43% -12 480μ 300μ Part 0.056 1 5 15 4007 40 30% 35% 3% 55% 30 Part 0.056 1 5 15 4007 40 35% 35% -λη 55% 30 Part 0.056 1 5 15 4007 40 35% 35% +λε	
¹ χ Andodar 20 2399 14 ³ μ 14 ³ μ 14 ³ μ 2 And Ca 144 2.5 16 C0113 56 05 ² μ 31 - 1.3 ¹ χ Apacha Cap 0.238 6.6 36 1516 34 ³ μ 34 ³ μ 34 ³ μ - 3 2 Apac Mun F G65 6.9 333 α4 ³ μ 9 ³ μ 9 ³ μ 9 ³ μ 2 Apac Mun F G65 6.9 333 α4 ³ μ 9 ³ μ 9 ³ μ	2215 14 % Caped Man 1,70 7.7 10 1681 2216 21 % 2219 +5 061 8212 Carrietto 0.12 0.1 44 1862 22 79 81 % 424 855 8016 Carrietto 0.12 0.1 44 1862 22 79 81 % 424 855 8016 Carrietto 0.8 15 15 236 864 833 434 -214 8212 2014 Carrietto 9 80 1.8 15 236 864 833 434 -214 8212 2014 Carrietto 9 80 1.8 15 236 864 834 34 -214	124, 612 Blar 6 200 115, 115, 115, 114, 44, 1 153, 75, Bucht 6 15 74, 74, 74, 74, 274, 154, 155, 156, 254, 352, 156, 156, 275, 264, 352, 156, 156, 156, 156, 156, 156, 156, 156	65 ² 6 44/2 Horwerk β 1.00 1.7 21 3119 613 ⁴ 6 623, 633, 41 65 ² 8 30 Hotstann β 0.44 1.2 11 219 3549 345 254 4 4 23 65 ⁴ 6 Hot2MS Hz 21 420 165 ⁴ 9 165 103 4 4 23 16 ⁴ 9 Horman 0.50 25 20 397 24 2259 2572 4 9 ¹ 9 12 ¹ 9 Horstan 0.57 L4 181025 16 174 18 9 ¹ 9 12 ¹ 9 Horstan 0.57 L4 181025 16 174 18 9 ⁴ 113 Hotstan 0.25 1.8 24 3114 153 154 175 4 18	55% 38 Mattern 1.00 2.01 (7 1528 50% 48% 48% 1.5% 1.3% 1.5% 1.1% 1.2% 1.1% 1.2% 1.1% 1.2% 1.1% 1.2% 1.1% 1.2% 1.2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- U
2 Acchon 8 201 09 2212065 222 ⁵ 0 213, 225 Accools, 268 5.6 11 644 683, 473, 644, +3, 8 Accool 64 470 37, 334, 37, +3, 2 Accool 819 316 95 3 221, 221, 221, -1, Accool 91 316 95 3 221, 221, 221, -1, Accool 97, 673, 674, 674, 674, 674, 674, 674, 674, 674	42 31% Const 1.32 4.6 0 254 3342 324, 25% 44 16 18% Canonitatia 0.16 1.1 35 914 15% 14% 14% 16% 13% Canoni NG 0.85 4.5 16 73 16 15% 14 56%, 40 CaseCo 5.20 04 18 9053 47% 45% 47% 4% 7% 4% Cash Amer 4 0.05 0.7 13 87 7% 7 7% 1% Cash Amer 4 0.05 0.7 13 87 7% 15% 15%	10% 17% 1500 10% 128 6.0 18 80 10% 19% 18% 16% 16% 5000 808 6.0 18 2743 13% 13% 13% 13% 25% 51% 51% 5000 00 00 11% 11% 12 81 62% 62% 62% 22% +1% 25% 21% 5000 00 120 4.0 12 40 42% 22% 22% +1% 25% 18500 00 120 4.0 12 40 42% 25% 25% 41% 18500 10% 10% 10% 10% 10% 10% 10% 10% 10% 1	247a 427a Hongtonariai 0.500 19 81 59 4472 442°a 442°a 442°a 442°a 47°a 11 32 Honsati 1.558 1.718 5780° 1891 85% 105% 115 19 124 Honsati 0.161 1.119 621 14Åa 14Åa 14Åa 41Åa 13 31Åa Hudbati 9.1265 4.520 783 41Åa 41Åa 14Åa 14Åa 41Åa 14Åa 11Åa Hudbati Fáci 0.06 0.522 781 17Åa 16Åa 17Åa 14Åa 17Åa	34 ² ₁ 2 ² ₁ 2 ³ ₁ 4 ³ ₁ 4 ³ ₁ 2 ³ 2 ³ 2 ³ ₁ 2 ³	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
a Ananco 880 3.2 16 3790 25 2 24 2 25 3 5 Astudi608 8.32 2.0 322 16 18 18 4 4 Astuard 1.18 2.6 14 1836 42 4 42 4 42 4 42 4	7772 34 Campor 1.80 22 18 6854 773 774 774 774 774 36 33 Contor Fair 2.50 7.1 11 100 354 374 374 374 374 37 674 Contor Fair 2.50 7.1 11 100 354 373 374 374 374 374 674 Conter 0.00 6.2 11 1364 6974 674 375 374 474	244, 207, Eronal 1,69, 8,6 11, 1086, 334, 334, 225, 44, 57, 65, 84, 844, 57, 59, 59, 50, 50, 50, 50, 50, 50, 50, 50, 50, 50	14 104 Hofy Carp 2.34 25 51 243 134 127, 135, 44 14 255 Heyten Sap 0.64 10.18 23 44 81, 255 Heyten Sap 0.64 10.18 23 44 81, 15 Housen 14 25 82.5 57 7115 194, 175, 174, 4 81, 15 Housen 140, 0.26 23 14 28 185, 184, 184, 184, 82, 44 Hentenbard 0.22 27 3 73 54, 54, 54, 54, 54, 85, 64, Hyperica 0.80 9.7 136 64, 94, 94, 4, 5	322 303 bandton 0.40 D.B 24 334 534 534 534 -34 74 År ad 5 bandton 0.40 D.B 24 345 534 534 534 -34 74 År ad 5 bandton 10 10 1258 274 7 742 42 42 42 44 7 742 44 7 742 44 7 742 44 7 742 44 7 744 74 7 744 744 7 744 744 7 744 744 74	10212 78 + Proctic 1.80 1 8 2310439(10212 1005 102 +1 2	•
h Acsar 1mm 0.381945 6 191 379 372 379 A ATAT 1.32 1.9 6478987 344, 34 644 44 0 Adl Rech 2 2.00 6.8 2 213 313 313 4 Anna 504 0.28 1.3 6 3 82 82 82 81 - 3 8 Anna 504 0.28 1.3 6 13 307 184 173 173 173	1654, 1114, Contribute 0.000 7,6 9 244 117, 113, 117, +3 477, 303, Contribute 0.767 1.9 151 453 454 0007, 4034, 4034, +4 1554, 12 Contribute 0.768 7,0 7 43 1254, 1254, 1254, +4 251 2555, Contribute 0.768 7,0 7 43 1254, 1254, 1254, +5 3552, 303, Contribute 0.755 11 144 1004, 3255, 3154, 3254, +5 3552, 303, Contribute 0.555 11 144 1004, 3255, 3154, 3254, +5	2013 24 1/2 10 10 14 15 63 40 25 1/2 25 1/2 25 1/2 14 1/2 14 10 16 17 16 16 17	- - 29 22½ 569 hr. 0,16 0,4 10 4245 25½ 24½ 25 4½ 20 114 PTmax 245 15½ 1 45 15½ 13 13½	17% 12% Mandato Fe 0.52 4.2 4 856 15 14% 14% 70% 50% Mandato Fe 0.52 4.2 4 856 15 14% 14% 4% 15% 15% Mandato Fe 0.56 17 7553 M7% 85% 70% 4 3% 4% 16% 70% 100 67 1051565 (3% 27% 7% 18% 7% 18% 18% 18% 18% 18% 18% 18% 18% 18% 18	40 ⁴ 0 30 ⁴ 2 Prote 0.20 1.8 11 1066 48 47 ¹ 8 47 ¹ 8 - ¹ 8 81 52 Presented 405 7.0 220 58 58 58 181 64 ¹ 4 Presented 7.15 7.3 r18 97 ¹ 2 97 ¹ 2 97 ¹ 2 32 ¹ 8 25 ¹ 8 Presente 2.10 7.9 10 4381 27 ¹ 2 27 ¹ 8 27 ¹ 2 4 ² 8 20 ¹ 8 17 ¹ 9 Presented 2.10 7.9 10 4381 27 ¹ 2 27 ¹ 8 27 ¹ 2 4 ² 8 20 ¹ 8 17 ¹ 9 Presented 7.11 21 21 21 21 21 21 21 21 21 21 21 21 2	
Attas 850615 1 101 7 12 12 13 Attagenti 105 4.3 13 48 234 23 234 -3 August 616 8.6 44 1732 (27) 27, 27, 77 + 7 Austrin f 803 0.3 334 9 87 67	16^{1}_{2} 10^{1}_{2} (Degement x 0.20 1.5 6 27 13-4 13 13 -4 1 6^{1}_{4} 4^{1}_{5} (Dearthese 7 50 4^{1}_{5} 4^{1}_{2} 4^{1}_{3} $+^{1}_{3}$ (6^{1}_{5} 5^{1}_{2} (Decement 2.24 2.5 1627) 32 (1686) 8^{2}_{5} 8^{2}_{5} (162)	13 64,000 4.000 4.50 4.0 11 670 94,054, 64, 73 154,124,1800,000 4.6 0.81 51 154,154,154,154,154,154,154,154,154,154,	8 T ₁ 9 FT Prophy 0.50 9.5 15 472 8 J ₂ 8 J ₂ J ₃ 4 J ₁ 13 (DF Fac 50 260 3 13 3 4 J ₂ 17 J ₃ (DF Fac 50 280 3 13 32 1 J ₂ 29 J ₃ (binne) For x 1.98 5.0 13 527 21 J ₃ 31 J ₄ 37 J ₄ 32 27 J ₂ (BT wei Az 2.21 7.4 x1 H ₂ x1 J ₄ 37 J ₄ x1 J ₄ <td>223 163 140 100 10 0.00 2.9 3578 203 201 201 201 473 335 1400 0 0.20 1.0 16 1605 342 355 150 16 160 17 75 14 140 11 16 1605 342 355 150 16 16 16 16 16 16 16 16 16 16 16 16 16</td> <td>30 221 Populs 1.84 0.1 12 219 227 234 2234 -4 65 33 2 Potts 0.65 1.0 19 76 945 443 443 443 +4 1014 942 Potts 0.65 1.0 19 76 945 443 443 +4 1014 942 Potts 0.65 0.8 39 16 87 18 +4 4 74 Potts 0.67 0.8 39 16 87 18 +4 4 74 Potts 0.67 7.8 191 75 72 75 +4 145 134 134 134</td> <td> • .</td>	223 163 140 100 10 0.00 2.9 3578 203 201 201 201 473 335 1400 0 0.20 1.0 16 1605 342 355 150 16 160 17 75 14 140 11 16 1605 342 355 150 16 16 16 16 16 16 16 16 16 16 16 16 16	30 221 Populs 1.84 0.1 12 219 227 234 2234 -4 65 33 2 Potts 0.65 1.0 19 76 945 443 443 443 +4 1014 942 Potts 0.65 1.0 19 76 945 443 443 +4 1014 942 Potts 0.65 0.8 39 16 87 18 +4 4 74 Potts 0.67 0.8 39 16 87 18 +4 4 74 Potts 0.67 7.8 191 75 72 75 +4 145 134 134 134	 • .
4 Americo 648 26 11 156 157, 157, 157, 154, -4 5 Analiz 084 84 8 93 94 94 64 10 Ameri 860 12 12 649 527, 511, 527, +1	317 15 Chocks 45 8019 255 244 245 45 404 344 Chemed 2.05 5.5 14 50 384 275 375 47 394 234 Chemed 2.05 2.5 14 50 384 275 375 47 394 234 Chemed 2.05 2.5 15 100 20 217 37 614 51 Chem 2.16 34 2415144 654 637 643 -4 77 73 Chemerical 0.02 01 398 725 724 234 234 -4	الله الله الله الله الله الله الله الله	44,234,800,860,000 2,515,809,327,334,374,42 45,41,879,497,300,71,2100,424,424,424, 45,44,879,11,240,12,250,244,274,224,424, 80,457,107,202,40,16,202,504,504,504,504, 91,124,800,804,71,504,502,202,44,504,504,504,504, 14,124,804,504,504,504,504,504,504,504,504,504,5	73 54 MMM Corp 22 72 67 64 63 -49 1224 1007 Model x 400 3.5 14 6457 1154 1134 1134 1134 1134 124 124 64 657 174 -12 124 64 857 154 87 759 74 -12 124 654 80 0.20 2.1 651 12 95% 95% 95% 95% 65% 14 23 145 23 1405 14 20 2.1 650 1.4 20 156 12 95% 95% 95% 14 23 23 140 140 7 10 67 14 20 21	11 ¹ a 10 ³ p Putmpr Min 0.78 7.0 122 10 ⁷ p 19 ³ p 19 ³ p 10 ³ p 8 7 ¹ b PutmmMetel 522 63 442 7 ³ a 7 ¹ 2 7 ¹ 2 - ¹ p 9 ⁵ p 7 ¹ a PutmmMetel 608 8.2 172 6 ⁵ p 8 ⁴ p 8 ³ p 6 7 ¹ p PutmmProp 0.65 8.4 961 7 ³ p 7 ³ a 7 ³ p 15 ⁴ h 17 ³ b Dasher20m 869 4.6 82 1100 14 ³ b 14 ³ b 14 ³ b 37 ⁵ p 30 ⁴ p Dasher20m 869 4.6 82 1100 14 ³ b 14 ³ b 14 ³ b 15 ⁴ h 17 ³ b Dasher20m 869 4.6 82 1100 14 ³ b 14 ³ b 14 ³ b 14 ⁴ b 15 ⁴ h 17 ³ b Dasher20m 869 4.6 82 1100 14 ³ b 14 ³ b 14 ³ b 14 ⁴ b 15 ⁴ h 17 ³ b Dasher25 0.40 24 31 644 17 16 ⁵ b 15 ⁵ b 15 ⁴ b - ⁴ b	i. Lite
- B3 - 2 DCE 272 58 25 4056 U47 4576 4676 +1 ³ 8 Baumco 0.20 3.1 7 21 8 ³ 8 8 ³ 8 4 ³ 8 Gauer Fent 840 21150 94 194, 1876 18	16/2 11/3 Charles 0.20 1.8 2003 1212 1214 1231 -4 1 55 42 Charles Fuel 0.50 162 54 75 473 474 474 -14 4 44 30% Corte 1.00 2.5 71 1237 402 365 4012 -14 1 254 20% Content 0.40 18 42 2 3434 2444 244 1 30 25% Content 1.40 4.3 828558 3334 3334 334 -4 1 30 25% Content 1.40 4.3 828558 3434 4934 494 494 494 494	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	17 16-by indee Sett 0.933 8.5 137 11-by 11 11by 8-by 227 yr (Sampy 1.12 4.6 12 72 24-by 24-by 24-by2 3-y 8-by indee Sett 0.05 0.5 57 9-by 9 9-by	θ-3 5% Manageon 0.79 1.7 12023 5% 6% 9% 19% 19% 19% 1.36 7.8 6 55 17% 17% 17% 19% 19% 1.36 7.8 6 55 17% 17% 17% 20% 17 1000000 0.04 4.5 7 100000000 20% 20% 20% 4.7% 92% 17% 17% 3.24 3.7 11 127.86 87% 85% 65% 4.4% 13 8% 14.0 1.02 1.20 1.4% 1.12	184, 172, Dantary St. 0.40 24 31 644 17 165, 157, 4, 304, 184, Cummer, 960 21 12 424 287, 234, 254, -1, 374, 304, Duestria 8 120 32 30 164, 437, 375, 276, +1, 124, 114, Cuestria 9 120 32 30 164, 437, 375, 276, +1, 124, 114, Cuestria 9 120 122 65 113, 114, 114, 4, 375, 207, Cuestria, 118 32 15 972 385, 354, 365, -1, 36 202, Cuestria, 118 32 12 8 1400 305, 255, 256, 26 +1,	
4 9 alexentia 8 40 1.4 30 5249 34-1 ₀ 33-1 ₀ 33-1 ₀ -1 ₀ 0 salater Ele 040 2.8 17 1563 201 ₂ 33 30-1 ₂ +1 ₆ χ Ballop 0.60 2.5 20 369 24-1 ₆ 237 ₀ 24-1 ₆ +1 ₉ 5 80 4020 0.60 2.5 20 369 24-1 ₆ 237 ₀ 24-1 ₆ +1 ₉ 5 80 4020 0.60 2.5 20 369 24-1 ₆ 237 ₀ 24-1 ₆ +1 ₉ 5 80 4020 0.60 2.5 20 369 24-1 ₆ 237 ₀ 24-1 ₆ +1 ₉	B ¹ μ 7 ¹ μ C2μmeintiz 0.071 9.5 182 0075 654 6 ¹ μ + ¹ μ 4651μ 36 CRecry In 2.40 8/6 16 256 37 ¹ μ 36 ¹ μ 32 ¹ μ + ¹ μ 37 ¹ μ 37 ¹ μ Com Bell 0.88 1.8 22 1418 61 ¹ μ 42 ¹ μ 30 ² μ +7 ¹ μ 28 ¹ μ 18 ¹ μ Content 0.36 1.8 8 2234 23 ¹ μ 18 ² μ 24 ¹ μ +7 ² μ 2 ¹ μ 14 Competent 6 5 633 1 ¹ μ 1 ² μ 1 ² μ + ¹ μ	2412 164 Faithir 6.48 2.0 18 3027 241, 334, 234, 234, 43 235 274 Faithir 8.78 2.0 1744000 365, 38 361, 43 275 205 Faithir 8.0 0.56 2.1 20 599 25 243, 243, 44 285 257 205 Faithir 9.0 0.56 2.1 15 217 2752 274, 275, 443, 44 285 255 Faithir 9.0 0.56 2.1 15 217 2752 274, 275, 44 214 15 217 275, 74 155, 14 .45, 137 157 14 155, 14 .45, 14 157 14 155, 14 .45, 14 157 14 155, 14 .45, 14 157 157 14 155, 14 .45, 14 168 157 14 155, 14 .45, 157 175 14 155, 14 .45, 157 175 14 155, 14 .45, 157 175 14 155, 14 .45, 157 185 14 .45, 157 195 14 .55, 14 .55, 14 .55, 14 .55, 14 .55, 14 .55, 157 195 14 .55, 14 .55, 14 .55, 14 .55, 14 .55, 14 .55, 157 195 14 .55, 14 .55, 14 .55, 14 .55, 14 .55, 14 .55, 14 .55, 14 .55, 157 195 14 .55, 14 .55, 14 .55, 14 .55, 14 .55, 14 .55, 14 .55, 14 .55, 157 195 14 .55, 14 .55, 14 .55, 14 .55, 14 .55, 14 .55, 14 .55, 14 .55, 14 .55, 14 .55, 14 .55, 157, 14 .55, 14 .55, 157, 14 .55, 14 .55, 157, 157, 157, 157, 157, 157, 157, 1	26 18 hids 0.20 1.2 9 2545 185, 185, 185, 185, 44, 6 Pag 22 inputbate 27 3464 284, 275, 275, 275, 275, 175, 175, 175, 175, 175, 175, 175, 1	16-2 11-2 Ματημαικήμα 0.20 1.8 9 256 κ16-2 15-3, 18 +3-η 6-3 45 μότημα Ργ 20.192 8 77, 6 +4 34'κ 40'κ Μάτραδί 0.20 1.3 9 4583 55-3, 52'ε 55'ε +2'κ 9-3 8-3 Ματήμα 0.16 1.1 39 349 9-4 9 9 4.3 33-4 Ματήμα 0.16 1.1 75 5085 47-4, 35-5 40-5 +1 68-2 44-3 Ματήμα 0.46 1.0 203344 46-3 464-4 46-3 +1-3 65-9 67 Ματήματί 0.60 8.4 74 8-3, 64-0 3 +1-3 65-9 67 Ματήματί 0.60 8.4 74 8-3, 64-0 3 +1-3	– R:– 275-в 22-3 в⊔ Dong 0.52 1.9 8 150 а275-в 275-в +3- 114: 6-2 ROCTennian 838 4.1 1005 б5-в 8-3, 95-в	
a Bunduci 100 34 14 104 6274 4216 4212 443 4 Banduce 130 22 13 15747 4314 4212 4314 44 4 Banduce 1 44 29 18 18 1847 4314 4212 4314 4 Borphilament 1.20 38 12 551 4401a 394, 397a +1a 1 Borphilament 1.20 38 12 551 4401a 394, 397a +1a 5 Bordan 390 19 13 79 4644 4644 4644 -44	414, 344, Ctocco 208 5.6 17 407 379, 507, 379, 242, 1 304, 25 Gross C 0.14 94 21 3658 354, 305, 254, -4, 1 444, 279, Ctocs C 30727 345, 334, 344, -1, 1824, 67 Okcos 1.80 1.4 13175714624, 1005, 1614, -1, 6012 232, Good 2016, 65 65 48, 544, 512, 624, 12	165% 142 FBa 0.20 0.3 22 9596 75% 72% 74% 74% 75% 174 17% 12% Flagminuts 0.18 1.1 17 1342 14% 14% 4.% 14% 14% 14% 14% 14% 14% 14% 14% 14% 14	12 13 μπαλασ 16 104 32 33 33 33 64 834 836 140 1.1 132585 131 2 1294 1302 41 140 1.1 132585 131 2 1294 1302 41 15 41 14 μπαλα 40 550 175 17 - 4 15 41 14 μπαλα 40 55 22 24 1354 424 41 15 41 154 154 154 154 154 154 154 154 15	111 10 ² Mandamhana 0.70 86 299 18 ³ 16 ³ 18 ³ 18 ³ 23 ⁴ 18 ³ 18	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
a cantown 0 000 2.0 13 000 004 9 22 9 3.0 1 1 10 6 001 400 007 0 2157 76 2012 2014 2012 − 4 5 8 min/4m 4 3.75 0.0 40 4912 4949 4912 + 4 8 max/4m 8 605 6.5 43 92 8112 52 + 12 9 8 max/4m 8 176 2.7 15 3463 86434 0534 6412 + 12 10 max/5 0 545 0.6 3 824 81 0534 6412 + 12	123, 184, 225, 194, 257, 194, 194, 255, 197, 193, 193, 194, 194, 194, 194, 194, 194, 194, 194	15-21 (23), Frank Frais 0.000 0.8 3667 (15-2) (5-4, 15-2), 4-3, 25-4, 25-4, Frank Frain 16, 40 (14, 17) 188 20 (25-4, 23), 4-1, 7-1, 17-4, 17-4, Frain 17-4,	22 10-35 moder w 2.25 0.55 1 12 5-57 55 55 55 22 10-35 modes w 2.25 0.12 8.5 28 12261 123 315 122 34 -13, 37 11-3 m Recti 11 1825 12 12 12 12 12 -14, 13 13 14 m Recti 11 1825 12 12 12 12 12 -14, 13 13 14 m Recti 24 -15 12 12 12 12 12 12 12 12 12 12 12 12 12	- N - 66 52 ¹ / ₂ NC# Corp. 1.00 1.8 12 81 56Å, 55Å, 55Å, 55Å, 54 34 45Å, Macco. 0.75 1.7 0 59 45Å, 64Å, 45Å, 4Å, 35Å, 53Å, NakoOh. 1.00 2.8 17 1167 436Å, 55Å, 30 -Å, 17Å, 9Å, NakoOh. 1.00 2.8 17 1167 436Å, 55Å, 21Å, 4Å,	55 ¹ g 43 ¹ g Regitter 8 05 1.6 14 8289 40 ¹ g 40 ³ g 46 51 ⁵ g 34 Restored A 1.50 49 68 1751 35 ¹ g 34 ² g 35 ¹ g 34 ² g 35 ¹ g 34 ² g 35 ¹ g 35 ¹ g 25 ⁵ g Rockot 8 30 88 21 2789 35 ¹ g 35 ⁵ g 35 ¹ g 34 ³ g 4 ³ g 35 ³ g 35 ¹	2. 2. 2.
28302584 205 85 7 4634 494 4034 434 1874151 405 48 12 7915 0514 832 833 434 1874151 405 48 12 7915 0514 832 833 434 1870168 066 25 17 2417 2712 42534 2712 412 58008564 564 564 564 44 58008567 106 28 13 3130 3654 364 564 44 106 28 13 3130 365 381 234 45	05 72% Devez 58 756 98 240 34 34 54 54 40 34 34 54 54 40 39 39 56 56 10 20 20 20 20 20 20 20 20 20 20 20 20 20	$S_{11} = S_{11} = S$	4) 34% bankes 30 50 40 455 4457 45 /4 24% banker Bot 1.48 54 12 743 0274 27% 27% 24% 45 17% banker Bot 1.48 54 12 743 0274 27% 27% 4 45 17% banker Bot 1.0 52 14 13% 74 4-5 1% 45% banker Bot 0.02 0.2 175 5% 6% 6% 6% 4% 4% 45% 61% 5% 6% 6% 6% 6% 6% 6% 6% 6% 6% 6% 16442 07% 18 1.80 2.5 40 6820 455 6% 6% 6% 6% 6% 6% 6% 6%	10-1 50 μ μαλακάτα 55-2 5-4 μ μαλακάτα 55-2 5-4 μ μαλακάτα 55-3 5-4 μ μαλακάτα 26-4 2.8 111207 105-3 μ 50-2 55-4 μ 50 62-4 μ μαλακάτα 328 5.0 16 55 μ55 54-5 50 μ + 4 434 305 μ μ + 12 2077 μ434 43 43 40 μ + 4 435 30 μ + 12 2077 μ434 43 43 40 μ + 4 435 30 μ + 12 2077 μ434 43 40 μ + 12 4077 μ434 43 40 μ + 12 407 45 - 12 4 μ + 12 40 μ + 12 2077 μ434 43 40 μ + 12 40 μ	273-2 C5 Republik V 1.22 1.9 11 160 74074 23.42 23.	•: • . • .
Basery 1.31 29 156.06 32.36 31.47 31.78 74 Basery 1.31 29 168.060 32.36 33.46 33.59 +18 Basery 1.21 29 161.64.66 42.59 41.46 41.36 +12 Basery 1.21 29 161.64.66 42.59 41.46 41.36 +12	30 9.45 Deschmen 8.30 9.5 14 462 27 55% 20 -1% 35% 25% Deschmer 8.40 9.5 1.0 61 663 37% 2 37 32% 2 4% 45% 34% Desch 945 9.9 15 17% 43% 42% 42% 42% 43% 53% 30 Cocci 0 50 10 3323855 51% 31 51% 4% 46% 24 Cocci 0 10 0.2 55 679 42% 42% 42% 44% 25% 13% Cocci 0 10 0.2 55 679 42% 42% 42% -4%	68 421 = Fagnetty 0.58 12 17 452 451 454 454 454 454 454 454 55 159 232 = Faffer 206 6.1 14 4659 342 324 234 - 1 = 1 251 33 = Fameria 0.65 1.6 14 47 40 355 354 234 - 1 = 1 171 344 Fata 0.52 1.6 14 47 40 355 354 - 1 = 1 173 34 = Fata 865 1.0 21 4542 654 643 655 1.4 = 1 551 656 FAC 0. 220 29 14 359 75 755 744 + 1 = 1	- J -	221, 74, Mat Educon 42, 1126, 164, 147, 155, 34, 383, 313, Mar Fault 1.65, 44, 13, 216, 314, 373, 374, 44, 344, 384, Mar Fault 2.00, 53, 15, 91, 304, 375, 374, 44, 234, 13 MiSsent 27, 5066, 194, 181, 194, 44, 404, 373, MiSsent 1.18, 14, 18, 528, 344, 34, 34, -3, 11, 64, MiSsand 4, 70, 7, 7, 2, 2, 3, 3, 3, 4, 3, 4, -3, 11, 64, MiSsand 4, 70, 7, 7, 2, 3, 3, 3, 4, 3, 4, -3, 3, 4, -3, 3, 4, -3, 3, 4, -3, 4, -3, 4, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3	615 465 8 Reyard 1 1 40 22.5 18 3369 57 5 35 57 57 52 57 77 8 39 2 Romen Ror 1 28 1.9 23 230 2 69 4 68 2 68 5 67 5 4 5 7 77 8 39 2 Romen Ror 1 28 1.9 23 230 2 69 4 68 2 68 5 67 5 4 1 3 37 27 8 Romen 0 107 2 11 0 67 2 34 1 34 2 34 2 34 2 34 2 34 2 34 2 34	7 :
990 18 2052 23 4 22 4 23 4 4 4 2 Re 1 1838 156 78 96 20 1 9 1 4 20 4 4 3 Re 2 1 1838 1 56 78 96 20 1 9 1 4 2 4 4 4 4 Rec 2 1 8 1 2 9 7 6 3 1 1 2 4 1 4 7 8 4 4 4 4 4 1 4 1 2 1 2 1 4 1 4 1 4 1 4 1	901-50576 CoopPate 188 20 24 2494 UK31-5 92-5 92-5 92-5 92-5 92-5 92-5 92-5 92	774 374 Fords 1.47 431 1022180 324 312 315 44 175 84 75 Fords 0.00 10.1 82 84 8 6 29 774 334 Fords 0.00 10.1 82 84 8 6 234 1178 854 2 Forden 0.6 230 24 31 1178 30 5234 345 14 19 854 2 Forden 6 230 24 24 31 178 31 10 105 475 FPL 176 3.7 18 2705 474 464 474 43 15 105 475 FPL 176 3.7 18 2705 474 464 474 43 15 105 475 FPL 137 10 2705 474 464 474 10 10	μ ² η 18 ² η Jacobs Eng 14 223 27 ² η 27 ³ η 22 μ ² 2 7 ² η Jacobs Eng 11 1 Α 23 8 ¹ η 8 6 18 7 ⁴ η μο Ολας 0,19 2.7 368 7 ⁴ η 67 ⁴ η 7 ⁴ η - ¹ η	56/2 42/2 Maturation 914 83 21 81 40 4, 46/4, 46/4, 46/2, μ 12/4 8/4 Maturation 7 1005 9/4 8/4 9/4 56/2 52/4 Maturation 6 00 188 2 55/2 52/5 52/2 36/4 17/4 Maturation Mar 0.20 0.6 25 969 327, 32/4 325 μ 37/2 11/4 Maturation Mar 0.20 0.6 25 969 327, 32/4 325 μ 37/2 11/4 Maturation Mar 0.20 0.6 25 969 327, 32/4 325 μ 37/2 11/4 Maturation Mar 0.20 0.6 25 969 327, 32/4 325 μ 37/2 11/4 Maturation Mar 0.20 0.6 25 969 327, 32/4 325 μ 37/2 11/4 Maturation Mar 0.20 0.6 25 969 327, 32/4 325 μ 37/2 11/4 Maturation Mar 0.20 0.6 25 969 327, 32/4 325 μ 37/2 11/4 Maturation Mar 0.20 0.6 25 969 327, 32/4 325 μ 37/2 11/4 Maturation Mar 0.20 0.6 25 969 327, 32/4 325 μ 37/2 11/4 Maturation Mar 0.20 0.6 25 969 327, 32/4 325 μ 37/2 11/4 Maturation Mar 0.20 0.6 25 969 327, 32/4 325 μ 37/2 11/4 Maturation Mar 0.20 0.6 25 969 327, 32/4 32/4 32/4 32/4 32/4 32/4 32/4 32/4	223, 1772, Rocheg 1, 50, 97, 18, 428, 185, 185, 185, 185, 185, 185, 185, 18	
Race to Market.	301-3 21 % COHCA. 812 0.3 11 6020 36 % 301-2 36 % -1 % 1 21 % 13 % COHCA. 155 76 72 237 21 20 % 20 % 1 30 19% Condeton 0.26 83 15 154 23 % 26 38 % -1 55 % 26 % Condeton 1.55 20 13 3044 455 % 53 % 4% -1 30 10 % Condeton 0.54 4.9 7 115 11% 11% 11% 1% -1 30 10 % Condeton 0.54 4.9 7 115 11% 11% 11% 1% -1 30 10 % CondetMat 0.54 4.9 7 115 11% 11% 1% 1% -1 30 10 % CondetMat 0.54 1.9 7 105 11% 11% 1% 1%	735,4654,Paand Ra 0.44 0.8 19 1249 1735,71 12 734, +15, 55 175,201,2 Findhleyer 20 783 1375, 384, 384, 3	H ² 26 ² / ₂ Juen Co. 1.04 2.3 14 1903 72 ² / ₂ 72 ³ / ₂ 72 ³ / ₂ H ² / ₂ 41 ¹ / ₂ Juen Lo. 1.08 2.7 2428538 50 ³ / ₂ 48 50 +1 ¹ / ₂ H ² / ₂ 72 Juen Sol - 1.08 2.7 8 225 74 57 ² / ₂ 75 H ² / ₂ 16 ² / ₂ Juen Lo. 1.08 4.1 10 1829 21 ³ / ₂ 21 ³ / ₂ 21 ³ / ₂ -1 ₆	224,142,142,145,142,153,142,153,142,154,142,142,142,142,142,142,144,143,144,144,144,144,144,144,144,144	12 ⁷ 2 9 ⁴ 9 Roman 71. 0.18 (L5 18 713 12 ⁴ ₂ 12 ⁴ ₃	
North 1	257 24 Convects: 05 205 68 3 3 3 35 2 22 4 22 5 3 12 5 75 Convects: 05 205 68 3 3 3 35 5 22 4 22 5 3 12 5 75 60 5 4 12 3 69 9 0 54 8 5 1 57 5 35 75 60 54 55 75 60 1 74 61 74 75 5 4 5 1 5 5 6 5 6 5 1 74 6 1 74 11 5 11 3 4 5 1 5 6 6 4 33 4 6 7 6 6 1 7 5 6 1 4 5 5 6 6 4 5 1 7 6 6 1 4 5 1 7 6 1 4 5 1 7 6 1 4 5 1 7 6 1 4 5 1 7 6 1 4 5 1 7 6 1 4 5 1 7 6 1 4 5 1 7 7 6 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	No. 27 μ Frik7028 0.60 1.0 38 1297 30 31 277 μ Friedan 0.60 1.0 38 1297 30 31 47 37 31 277 μ Friedan 0.60 1.0 38 1297 30 31 47 37 31 47 37 31 47 37 31 47 37 31 47 37 31 47 37 31 47 37 31 47 37 31 47 37 31 47 37 31 36	- K - K K -	37 ¹ / ₄ 20 ¹ / ₄ 18 677.5 32 ³ / ₄	33 22 23 23 23 24 24 24 25 24	
10	40 115-54 Comment Tigo 616 63 20 1095 040 331 394 +14 2 33 184 Comment 676 3.2 21 972 241 244 324 - 14 514 375 044 1 - 14 21 66 3194 451 4 501 - 51 - 2 2 24-9 215 Comment 00 1.52 67 11 51 2270 225 224 - 19 224 151 Comment 01 1.52 67 11 51 2270 225 224 - 19 224 151 Comment 1 12 63 12 44 21 215 21 - 4 972 633 (cm and 1 1 1 1 2 1 64 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- G - 11	Ha 15 KanCh5 4% 100 5.9 2100 17 17 17 Ng 38 2 Kansasi in 840 0.8 6 788 49 45 4 45 4 45 9 + 5 25 Kansasi in 840 0.8 6 788 49 45 11 4 15 11 4 -5	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	- S - 24 11% SANDARS 0.00 35 40 222 22% 22% - 714 514 575 Tx 1.28 21 17 97 593, 593, 593, 594 124 856500 R8 131 105 10 123 x124 11% 12% -4 474 274 514 5560 R8 32 0.5 65 578 38 30 30 307 45 182 133 5100 65 24 14 40 154 c4 12 154 c4 12	
	344,257,268,251 208 7.0 18 3338 257,255,234,43,3 00 (554,268,258) 500 7.4 22 572 567,573,43,4 239,184,268,76 560 7.4 22 572 567,573,43,44 774,412,058,868 194 36 17 552,750 244,237,245,45,4 574,412,058,868 194 36 17 552,750 245,555,54 545,45,45 574,454,205,068,557 194 32 10 611 512,507,514,45	894 374 GTE 188 44 1524033 434 414 427 +14 80 27 17 6TE F1.25 a 125 0.7 2100 185 185 185 44 54 84 Sabali Er 1.00 168 527 64 94 94 11 12 234 6404 Fr 1.00 168 527 64 94 94 11	15 287 1574058 0.48 12 14 325 40 4 40 40 42 + 2 14 34 18 18 18 4 12 13 13 14 5 41 6 41 6 41 6 41 15 12 14 12 15 15 15 15 15 15 15 15 15 15 15 15 15	1512 77 mitoramie 828 18 24 3837 151 151 151 151 151 151 151 151 151 15	45-7, 22-2; Satemay 24-1, 11-2; Satemay/11:56 29-2, 05-3; Satemay/11:56 29-2, 05-3; Satemay/11:56 29-2, 05-3; Satemay/11:56 29-2, 05-3; Satemay/11:56 20-2; Satemay/11	
STAT -	554 30 Convecto 0.05 0.1 12 3034 0554 346 344 4.2 7 61 50 Chartell 4.16 7.8 2 53 53 53 3 994 39 Chart 16 4.16 7.8 3 96 94 95 41 4 915 91 Conv Plats 0.64 0.3 41 144 141 141 444 141 141 141 141 141	8-4 59 Germin 1.44 19 21 3233 176-4 75 4 75 4 75 4 11 13 8-2 21 Generic 0.48 1.6 2010468 217 20-3 20-3 20-3 20-3 20-3 20-3 20-3 20-3	Januar Barrier Man. Barrier Sci. Sci	254,95%,8600 1.26517.7650271 114,115,114, 537,445,55% 373 5.813 553 484, 485,45%, 544,405,176% 0.37 5.813 553 484, 485,45%, 544,405,176% 0.27 0.3 30 2533 065%, 654,654,655, 615,55%,476%,652,41%, 14,1%,167%,97% 1.60 2.5155 323 37 6.00,001, 15,55%,47%,97% 1.60 2.5155 323 37 6.00,001, 15,55%,55%,55%,55%,55%,55%,55%,55%,55%,5	1 73 23 Sales Holog 28 3702 37 34 % 36 % 34 % 5 % 2 % Sales Holog 2 41 33, 35, 38 54 55 % 38 54 56 36 54 36 56	
te comparer system bioded of enter	13-5 8-53 boogtoods _ 88 734 1472 1474 1472 - 4-8 444 544_542 boogtoods 1.32 32 35 3970 42 4054 4145 - 45 2744 18 Coccer 748 0.30 1.5 15 3970 2049 1973 20 154 115 boost 04 0.24 1.8 16 20 1272 134 135 - 4-6 18 50-2 550 - 550 - 551 - 514 - 514 5 510 - 51	312 192 Groker 0.12 6.5 116 2214 23 221 197 72 57 Gentler 1.84 24 13 907 532 555 87 -5 14 623 692 Gentler 1.84 18 202432 1993 975 982 4-13 20 42 230 Gentler 1.84 18 202432 1993 975 982 4-13 20	-9 3-4-9 kng/ma -175 μ kng/tg 0.18 0.5 18 654 1954 1954 1954 1954 -4 54 kng/tg 0.48 0.5 18 654 1954 1954 1954 1954 -5 252 kng/tg 0.682 21 18 557 364 374 374 374 4-5 -5 252 kng/tg 0.682 1 0.68 21 18 557 364 374 374 374	45% 30% 240% 44% 44% 43% 43% 43% 43% 43% 43% 43% 43	11 a 31 a	
PACKARD	3795,1945,Country Cr 0.22,1.113,2853,42875, 28,2842, -+2, 6 21/2,1835,Country Cr 0.02, 1.13,2853,42875, 23,2275, 22, 6 16 944,Crady 2, 18,1445,144, 14 1747, 36,Cranto, 4.75,1.5,16,1867,4654,4614,464,4-14	4% 7% Gen Hocase 8.22 12 12 24 9% 54 6% 15° 0% 52 GriMA 2.00 3.5 50 3009 5742 57 579 4 473 84 45% General 167 25 977259 68 554 557 44 489 84 45 General 167 25 977259 68 554 557 44 489 84 45 General 1.56 13 13 27851694 183 4 44 30 84 23 General 1.56 13 13 27851694 183 4 44 30 84 23 General 1.56 13 13 27851694 183 4 44 18 5% 578 56 General 0.56 13 13 27851694 183 4 44 18 5% 578 56 General 0.56 13 13 27851694 183 534 44 18 5% 578 56 General 156 13 13 27851694 183 534 44 18 5% 578 56 General 156 13 13 27851694 183 534 44 18 5% 578 56 General 156 136 136 137 137 1578 18 5% 578 56 158 158 158 158 158 158 158 158 158 158	24 184 Forms Fol 0.08 0.4412 1965 1812 6184 1812 13 342 KPH 1.22 3.5 13 100 375 374 375 44 4 3342 Moger 17 9529 4814 454 45 46 44 17 9529 4814 454 45 46 44 17 9529 4814 5849 172 57 12 376 3814 235 46 44 12 113 Kehman Co 0.60 3.5 15 785 163 164 154 45 578 163 164 154 45 578 163 164 154 45 578 20 Kmom 164 0.85 0.7 18 20 1214 1304 1304 14 2 378 Kmom 164 0.85 0.7 18 20 1214 1304 1304 14 5 378 159 164 155 9 8 8 8 201 21 4 304 1304 1304 14	2014 189/2014 0000 000 011 1522 4893 47% 47% 47% .3% 12% 11% 18% 18% 18% 18% 18% 12% 11% 18% 18% 18% 18% 18% 18% 18% 11% 18% 18% 18% 18% 18% 18% 18% 18% 18%	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
	1					12

. ..

· ••

متحد شاه المحاد الأراج المراجع الم

والشؤيم كاهراك والمرجب

FINANCIAL TIMES WEDNESDAY NOVEMBER 6 1996

 $e^{i \pi i \theta}$

.

34

i

هجزا مذالا جهل

1 1 : 1

1

4 pm close November 5 **NYSE PRICES** NASDAQ NATIONAL MARKET 4 pay class November !
 1000
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100</t 1996 High Low Banck ₩14 17 Stat DW % X 180a Bligh Cirya Ciano Prot. Ciano Since Chips Cange Parts Div 5 E 1909 Magis Law Quelo Liber
 N
 3%

 Stack:
 Dik. E
 10%
 May
 Law
 Last: Sharp

 ACC Corp
 0.12283.6001
 37.2
 33
 24
 -2%

 Acctain E
 4.2327
 5.2
 47%
 5
 +3/a

 Acctain E
 4.2327
 5.2
 47%
 5
 +3/a

 Acctain CD
 46
 737
 30
 38/4
 38.5
 -1%

 Adstrington
 28.8543.62%
 607
 30.62%
 +2/a
 Adstrington
 20.36%
 +2/a

 ADC Tale
 50.6354
 1057
 28.36%
 28/2
 38/2
 Adstrington
 20.30
 28/3
 38/2

 AddoccaADR 0.18.32
 81/363
 81/36%
 38/3
 -2
 AddoccaADR 0.18
 32.8
 -3

 Advisional Sys
 1.20
 31.6175
 24.32%
 35/2
 -4
 M Sta De⊾E 101a Maga ₩ 38a BHL & 340a High Law Last Camp 1.40 11 578 50¹4 497g 497g 497g - 4g 0.20 15 7 97g 6⁵g 6⁵g 5⁴g - 1g 1996 Nga Low Speck Dis. **Deat** Last Ches Street. Continued from provides page Dep 8ty Devcon DH Tech Digi Indi 444 - R -- 1. -- V -- ¥ -1.44 2.2 27 2372 2084, 65 804, +1 0.52 2.2 552 2373 235, 235, 0.20 36 27 17 6 657, 57, -1, 35 736 173, 17 174, 194, 0.40 2.0 40 827 193, 194, 194, 195, 0.40 2.0 40 827 193, 194, 195, +2 0.32 0.7 12 1735 474, 463, 47, 47, 10 1718 22 387, 29 -3, 0.50 7.1 a 175, 154, 194, 194, 1.58 01 6 81 135, 134, 134, 194, 0.54 4.3 18 1175 154, 144, 145, -44, 0 550 7.1 18 703, 134, 134, 145, -3, 28 281 317, 315, 315, 315, -3, 0.44 5.5 17 122 435, 445, 434, 11 21 630 604, 551, 434, 24 5.5 17 122 435, 445, 434, 168 2.8 11 630 604, 554, 254, 254, 254, 355 15 1005 23¹1 22¹4 23¹2 + 1 11 275 15 14¹2 147 12 418 1738 17 1738 +4 072104 2100 163 163 163 184 abone Raincov 2 1583 4¹2 4¹4 4¹4 -¹8 0.10 0 13 16¹8 18 18 -¹4 0.50 10 1188 129¹2 29 29¹4 +¹4 Rellys Reymond RCSB Fin Ladd Funa 0.18 28 371 14 19 13 4 + 4 Dig Micro 83 1050 21 3 201 201 -13 5 7676 254 244 247 +5 Lam Asca 4 4995 232 233 24 24 727 134 123 1232 Dig Sound 4 0.60 14 2141 3712 364 373 +4 Dig Syst 1911291 181 174 174 +18 Read Riv Lance 🗍 x 0.98110 1769 175 174 174 -3 12 481 1418 1312 14 +14 205 2 243 13 14 14 15 -24 Addministry u.2.0 30 p1/rs 34 32/2 33/4 Adv.Logic 11 407 101g 91g 914 Adv.Popter 11 706 75g 914 Adv.Popter 11 706 75g 914 Adv.Total.ab 1144 3012 30 20 Adventa 6 0.45 12 5758 48 4712 4734 Adventa 6 0.45 12 5758 48 4712 4734 Recotory Adv Logic Adv Polym Adv TotiLab 0 319 518 538 534 -18 Lancobes 4 ᆚ Repligen Republicati 73 2579 117, 107, 1112 +42 7 -12 Later ind 8 71 54 47 5 +1 -2 Resulted DrecoEngy DressBarn 18 5265 374 364 37 +4 Lattice 9 62 430 74 74 74 74
 DressBam
 17 2718 d14¹4
 13¹2
 13⁵8

 Drey SD
 0.24113
 59
 26
 25
 36

 Dreg Empo
 0.06
 24
 127
 4³8
 4¹8
 4¹8

 National
 Dial
 24.50
 7.42
 7.14
 7.17
 1.12

 Restriction
 Dial
 Dial
 7.21.5
 7.14
 7.13
 1.13

 Restriction
 Dial
 Dial
 7.12
 1.13
 1.13

 Restriction
 Dial
 Dial
 7.14
 1.13
 1.13

 Restriction
 Dial
 Dial
 1.12
 1.04
 4.73
 4.73
 4.73
 -14

 Robusteribury
 Dial
 2.10
 1.74
 1.712
 1.72
 1.72
 1.72
 1.72
 1.72
 1.72
 1.72
 1.72
 1.72
 1.72
 1.72
 1.72
 1.72
 1.72
 1.72
 1.72
 1.72
 1.72
 1.72
 1.72
 1.73
 1.73
 1.73
 1.73
 1.73
 1.72
 1.72
 1.72
 1.73
 1.73
 1.73
 1.73
 1.73
 1.73
 1.73
 1.73
 1.73
 1.73
 1.73
 1.73
 1.73
 1.73
 1.73
 1.73
 1.73
 1.73
 Landon Pr 0.52 13 422 214 214 214 Locitieus Lille Tech 35 186 47 412 45 0.10 19 67 234 224 23 4 ᆚ Lileine Lilyindi. DS Bancor 0.24 13 223 41,5 414 414 28 246 164, 164 165 +4 Dustron: 0.52 16 81 25²5 25³4 28³4 - ¹4 Dyntach² 27 1184 u50³4 40³4 48³4 - ³5 0.32 25 2108 177 177 177 UndanyW 0.20 17 171 45 45 42 4 +12
 Alten Ph
 12 9482
 12¹/₄ cl(D¹/4
 10²/₂
 1²/₄

 Abd Cap
 1.52
 16
 55
 20 19³/₈
 18³/₆
 -1₆

 Abd Cap
 1.52
 16
 35
 20 19³/₈
 18³/₈
 -1₆

 Abd Cap
 1.52
 16
 35
 20 19³/₈
 18³/₈
 -1₆

 Abd Cap
 1.16
 13
 118
 15¹/₈
 15⁴/₈
 15¹/₂
 4³/₈
 4¹/₈
 4³/₈
 4¹/₈
 Lanam Tac x 0.20 16 3441 345g 335g 3414 +14 Liquillax 0.44 14 3 314g 211g 314 11g RPM Inc. x 0.52 17 1808 16³4 18¹4 18³2 Ryan Feniy 18 953 7³8 7 7⁵4 18 953 73 7 74 +1 - W -LasSuSik 20 5215 2712 265 2718 +7 - E -0 210 4 3¹2 3⁵8 1 4 630 9⁵4 6 9 1 20 14 6180 18⁵8 17⁵8 18³8 +¹8 16 4201 5¹8 4⁵8 17⁵8 18³8 +¹8 0.40 8 390 20¹2 18¹8 18¹2 -¹3⁵8 1.57 10 114 58¹2 56 58³8 +¹2 450 58³7 4²1 b Engla Fd EnseEnvira ECI Tel Lone Star 17 631 164 154 157 - Ja $\begin{array}{c} -\mathbf{T}-\mathbf{r}\\ & 50\ 29^{3}\ \text{Timer}\\ & 650\ 14.\ 27\ 1550\ 42^{3}\ 61^{1}_{2}\ 41^{3$ LTX Co 54180 44 45 45 - \$ -- T -
 AraBitras
 Lux
 AraChiny
 Lux
 AraChiny
 0.16
 3
 212
 5%
 AraChiny
 0.07
 AraChiny
 0.35
 212
 5%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3%
 -3% 0.84 25 21 473 473 473 +3 LANH 1.06 10 9893 394 383 381 +1 Safeco Eggheed BectrSci Sabciden 42 200 39¹2 39¹2 39¹2 .¹2 Sanderson 0.20223 835 13⁴8 13 13,7 +14 SalickHith Sectors SchimbgrA x0.36 19 1153 2712 2118 2712 +3 SCI System 18 7814 5318 5036 5034 112 - M -Bectives 18 7874 534 534 534 534 54 14 6 728 53 53 53 53 53 14 0.52 71161 94 684 93 93 14 1 3729 3,4 24 84 +4 120 57 7100 55 35 35 600 171361 3012 284 291 -13 Emcon Ass MCI Cap 17 158 1858 1814 1812 ·12 Enuiex EncoreCarp MS Car's Schex Co 0.50 6 2 137 137 137 -.15 16 1145 9¹2 87 87 ... Mac Mail Score Brd Seelleid SEI Cp Seibets 6 EngyVairs EngyVairs EnguityO& ERD Wage Ericants Ehici Evans Sth Madpa Magna Grp 0.80 13 349 2812 281 283 0.24 17 1488 20³8 20¹8 20³8 +¹x 0.38 7 150 2¹2 2³8 2³8 -¹x Mail Box 0.01 30 2094 2412 2234 2415 +112 212 23 23 1.12 9 258 343, 333, 344, Sequent 32 9054 4155, 15 153, Sequent 5 287 2, 239 23, Service 1 118 34 3 3 -Sevene 0.022 18 8 163, 183, 183, 184, 184, ShrMed 0.04 2315182 453, 4424, 424 -----Shorwood Marcasa Cp 5 138 124 117 12 4 1.12 9 258 344 334 344 32 9054 1157 15 151 -14 39 6003 1378 1218 1378 +12 6 26 39 36 85 Marine Dr Merical Cp MarshSmkA 0.44 80 25 1112 1114 1114 3 3 -7 21 4800 14 13 134 46 57 142261342 144 18 65 125 12 124 0.16 27 1632 0434 6142 424 +4 Excelbor Excelbor Excelbor Marstal 0.74 18 1100 33 324 324 +5 49 2468 50 45 4 47 4 25 982 71 65 85 -12 20 8314 35 4 32 4 347 +13 Austine . Matria Hit Expedit I itanim Int EzcomAcv 8 480 614 738 8 -14 McGrath 8 0.86 15 321 254, 243, 253, -3, McCrath/W 0.06 4210713 243, 243, 243, +1, Stunetic P Standar P SigmaDas StecsVBc StecsVBc StecsVBp Simpson Simpson 0.44 20 2305 u80¹4 58¹2 60¹4 +1¹2 77 1081 77 74 74 +¹4 Medex Ins 0.19 47 155 15 145 147 +1x
 Sigmatical
 77
 1061
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%
 7%

 7%

 - F -Melanoice 0.24 13 97 7% 7% 7% 14 % 19 169 8 5% 5% Fell Grp 0.24 11 88 173 17 173 -14 0.12 52 859 443 44 442 -14 79 4247 341 333, 34 1.04 20 1230 8642 623 644 +13 Farr Cp Festional Mantr6 0.24 16 5120 812 6818 914 -18 FHP Int Filth The Filippie A Filippie A Filippie A Filippie A Filippie A Menael 6 2723 2⁴4 112 2 Mahada & x0.20 20 782 u20 19 16⁵6 +¹2 1436018 284 287 275 475 448011 235 024 275 275 475 0.24 195632 23 21³2 22 -1 2 1065 3.1 258 258 6.052 9 203 17³4 197 17³8 -1 Aimei AuraSys Autoisk Actointo Stypiess 41 2045 11-9 10-2 11-4 +-2 St. Judenki 0.40 20 4729 40-2 39-3 39-5 --2 St. Pauller x .45 20 4022 28-5 25-5 25-1 --2 Sapis 3642926 18-4 18-5 18-5 +-2 Starbusto 75 7531 34-4 38-1 24-7 +-1 Starbusto 75 7531 34-5 29 9-4 +-1 Starbusto 10 19 30-00 172 --10 + 23-MFS Cm 1825204 50% 48% 50% +% Michael F 0.20 17 681 12¹2 12¹2 12¹4 ·¹4 Michael F 0.20 17 681 12¹2 12¹2 12¹4 Fist Secty Fist Tenn 9,80 17 523 30 287, 207 1.09 14 2585 36¹, 35⁵, 35³, Microcom 12 1161 812 81 83 +14 . . Avandale 29 429 9 655 57 -3 3953000u141¹2138¹2141¹2 +3¹2 Microrate
 Steel Toc
 0.10
 13
 289
 127g
 123g
 < Micalt - U -SAID AN M 14 52 11 16 19 19 12 -18 444 - B -5 2 155 155 155 155 1.10 8 200 173 17 174 +12 Minim Grain 0.06 53 263 u164 17 164 +1 StrandarCl Miles H 0.52 23 1020 434 434 434 432 -12 Struction Struction 0 270 1¹2 1²4 1³2 453 7056 13³4 19 18¹2 Mallern 0.25 23 1000 444, 434, 435, 452, 452 Mallern 498 397, 383, 397, 45, Mannatech 0.18 19 34 124, 114, 114, MabileTel 8 3080 13¹2, 15 13¹8, 48 Modern Co.x0.24 14 39 18¹9 6²4, 9¹8, 4¹8 친구는 Millem Minntech ż Stryker Sutiward 0.05 20 4328 30 2834 295 0.80 14 17 1238 1134 1134 Sumhmond 0,50 0 8 24% 24% 24% Summit Ts 8 1581 5% 5% 5% Sum Sport 2 61 1% 61% 1% もっていってい Modine Mf 0.86 12 2682 25¹4 24⁵8 25¹6 +1 MolexA 0.05 22 2657 34 32¹4 33¹4 +¹6 +16 Molex Inc 0.06 25 880 3712 3612 3612 -12 0 000 12 357 3112 304 301 0.00 13 154 224 224 222 0.00 62 158 404 3912 304 6 736 213 212 212 212 0.02 62 158 404 3912 304 6 736 213 212 212 3134 Basic Pet Desset F 4 SunMic 2532263 634 624 625 +4 Moscom 0.04 33 1009 7% 071 7% -12 - 0 - $\begin{array}{c} - 0. - \\ 34 203 2^{3}_{4} 2^{5}_{9} 2^{3}_{4} + \frac{1}{2} \\ 0.07 25 2043 3^{1}_{4} 30^{2}_{4} 30^{2}_{4} - \frac{1}{2} \\ 5 32 3^{1}_{2} 3^{1}_{4} 3^{2}_{4} 3^{3}_{9} + \frac{1}{2} \\ 4 1 120 ^{1}_{2} 2^{1}_{2} 2^{1}_{2} 2^{1}_{2} + \frac{1}{2} \\ 00 1614797 46^{2}_{4} 45 455 45^{5}_{6} + \frac{3}{4} \\ 018 5 48 8^{3}_{9} 8^{1}_{8} 8^{1}_{8} 8^{1}_{8} - \frac{1}{4} \\ 104 18 442 24^{1}_{2} 24^{1}_{4} 24^{1}_{4} 24^{1}_{2} \\ 11 59 9^{1}_{4} 8^{1}_{5} 6^{1}_{4} 6^{1}_{4} 5^{1}_{5} + \frac{1}{8} \\ 146405 5^{1}_{4} 4^{2}_{4} 5^{1}_{5} 4^{2}_{4} 5^{1}_{4} - \frac{1}{2} \end{array}$ Bay View MainseP\$ x0.32 14 519 294 27 284 +12 0 E App MTS Sys 0.64 12 51 21 2014 2012 -18 BE Aero **G&K Serv**
 Syntame
 13 5038
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 97
 103
 111
 115
 113
 111
 115
 113
 111
 115
 113
 111
 115
 113
 111
 115
 113
 111
 115
 -X-Y-Z-BeautiCos Ben&Jerry -4 Gamica Gamet Ra Mycogen 9 89 19 15¹2 16¹4 -¹4 15 583 135 124 134 052 14 842 524 514 513 +50 BerideyWA Gitway2000 Gehi Co BHA Grp Billinc 0.12 15 11 17 17 17 20 424 7 55 678 21 798 144 134 134 134 12 Gend Bind 0.20122 51 174 174 175 +52 Big 9 NAC Rd 0.20 8 31 3438 3438 3438 Baniyia GensiaPh 0.08 11 5 184, 184, 184, 184, 80 9780 742 723, 734, +15 Namesh Franch 0.72 10 383 17 164 164 -2 Biogen Biogen
 Biogen
 80 9780
 74¹/₂
 72³/₃
 73³/₄
 +1⁵/₈

 Biomet x
 0.10
 20
 3008
 18⁵/₈
 18³/₂
 18¹/₂
 -1²/₄

 Biomet x
 0.10
 20
 3008
 18⁵/₈
 18³/₂
 16¹/₂
 -1²/₄

 BMC Softward
 3722950
 89
 90
 81¹/₂
 +1³/₂

 Boatmado S
 1.68
 1724255
 16³/₂
 91²/₄
 +1³/₂

 Boatmado S
 1.68
 1724255
 15³/₂
 91³/₄
 +1³/₂

 Boatmado S
 0.58
 21
 1005
 12¹/₂
 12³/₄
 1³/₂

 Boatmado S
 0.58
 21
 1005
 12¹/₂
 12³/₄
 1³/₄

 Bob Evens
 0.32
 21
 1005
 12¹/₂
 12³/₄
 5³/₄
 -³/₈

 Boote & 6
 21
 603
 30³/₄
 50
 3³/₈
 -³/₈

 Boote & 6
 21
 603
 6³/₄
 5³/₂
 Nat Compt 0.36 5 76 2112 2014 21 -12 Gerniexo T-Coll Sc 42086 24 2 2 4 TJonne Pr 0.84 24 3495 03634 35 365 1 +13 TBC Cp 11 567 67 83 95 - T -444 New Sun 0.13 28 1572 224 214 214 -4 Genus Inc a concernence a presente de la concerne de la conce Genzyme# Geolek Cra 6.00 10 2100 16 16 19 Nevigator NEC 0.45 23 24 56 5512 5514 -18 11 567 678 658 658 0.56 16 1170 274 2632 2714 +58 4444 18 4476 1834 19 19¹a - T - 1 Cetchell6 TCA Cable TCI BpA TechDeta 0.40 10 364 1512 1514 1512 +14 21 603 30¹4 S0 30¹8 - ⁵8 Bodend 1116362 5¹2 64³4 5²2 + ⁵4 Soston Tc 28 8709 18¹4 16⁵x 16 + 1¹8 BradyW A 0.40 16 552 23¹4 22⁵8 22³4 - ¹2 BRC Hidge 841 242 40 37¹2 38¹2 - ¹2 BSS Brap 1.01 11 Gibeon Bi 0 2278 58 33 38 25318991 4844 4634 4844 +112 Neoster 5071970 1312 13 1318 -1e
 Elbern bit
 Units
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 U
 <thU</th>
 U
 U
 Poice data supplied by Talabas 3012361 u30³4 27²4 30¹2 +2 2.40 9 65 51³4 51³5 51³8 -58 32 63 14³8 14³2 14³2 -³8 Nelecape Yomity highs and lowe for NYSE reflect the peoked from Jun 1 1998. Unless threads of the state of chickand are smoot debuttereness that no the latest destantian. Sales figures are untilicited, d-sare yearly low, PC biolo-straings rath, ds-sales, in-term year high, x-ex-thicked or as-rights, yid-yield, z-sales in fail, 2 Dasling, amounted 26 2325 2314 2212 2212 -5 Notwik Gen Tecutoset Glub Blom GlubBlos Good Guys 1. 1. 1. 1. 1. 1. 49 287 21 20 20¹4 -¹4 0 14 132 132 132 -¹ 4 16 452 8¹2 8 8³5 -¹8 Naciogen Tekelec New Image Toko Sys 12 395 194 181 181 -11a

35

	433 17 LDX 2 0.28 0.7 50 4760 394, 395, 395, 329 172 172 120 minute 2 0 17 10 120 10 100 11 120 10 10 10 10 10 10 10 10 10 10 10 10 10	BRC Holog 10 001 242 40 37/2 38/2 -12 BRC Holog 100 11/2 10/2 11 -4 BRC Holog 100 11/2 242 40 37/2 38/2 -12 BRC Holog 100 11/2 10/2 11 -4 BRC Holog 100 11/2 242 40 37/2 38/2 -12	New Image 0 14 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2
	25% 19 ¹ / ₂ 7dsteps Fd 0.03 0.1 168 21% 21% 21% 21% - 18 28 17% 100 HB 12 34 19 ¹ / ₂ 100 HB 12 34 19 ¹ / ₂ 18 18 18	BT Shiping 0.48120 2108 35g 35g 35g BradcuSyat 9 72 37g 37g 47g 47g	Mondeon 0.72 19 330 5514 5412 5472 .3 Terra Tec 25 624 2112 2014 2114 +38
	21 15% Taking Pr 1.00 8.1 33 18% 16 $\frac{1}{2}$ 10 $\frac{1}{2}$ $\frac{1}{2}$ 38% 27% thread 0.00 22 16 5352 36% 38 $\frac{1}{2}$ 38 $\frac{1}{2}$ 28 $\frac{1}{2}$ FT Free Annual Reports Service 52 $\frac{1}{4}$ 55 Traines 1.64 4.5 35 401 43 $\frac{1}{4}$ 42 $\frac{1}{2}$ 42 $\frac{1}{2}$ 57 54 $\frac{1}{4}$ 1.00 1.7 18 1673 63 $\frac{1}{2}$ 63 $\frac{1}{2}$ 63 $\frac{1}{2}$ 63 $\frac{1}{2}$ 63 $\frac{1}{2}$ 1.00 cm obtain the current annual reports and if available	BuildersT 7 67 45 045 45 -Ja Green AP 0.18 11 123 1014 1018 1018 -Ja	1000 100 201000 30 30 30 424 00mm 579002 170 891 601 11
	15-14,5-19 Tendenci 75 33-20 13-78 13-14 13-16 1 2879 1714 US faid 6 13905 28.2779 2774 1 uppertently reports of any companies con the US exchanges with 59-5,9-4,5-07 30°5 + 18 2 # switching to companies con the US exchanges with 59-5,9-4,5-07 30°5 + 18 2 # switching to companies con the US exchanges with Access		N Starila 8 50 7 ⁵ 8 7 ¹ 2 7 ⁵ 8 + ¹ 8
	24 13 TUDed 10 5 13 12 13 14 34 174 ISA Walke 27 3780 334 327 3270 -1 I reports you used and fay your request to international accord		
	$37 \ 231 \ 1602 \ 1502 \ 172 \ 4.5 \ 16 \ 947 \ 247 \ 247 \ 247 \ 247 \ 247 \ 257 \ 107 $	-C-	Novel 2020252 912 934 914 - 7 11 12 91 515 9 51 + 1
	30-3 22-5 Telefons 1,16 4,5 16 2003 22-5 24-5 4-4 3/9 24-6 05X 05 1,100 3,8 17 7400 24-5 2/4 40-5 +1 www.icbinc.com/ogi-bin/Inancialitings.	C 16C 54 1046 2048 20 23 -2	NPC Int 55 928 812 81 814 18 Todd-AD 0.08 18 80 114 104 104 12
	384,274,188982 U.S. 2281214/48 31.3048,304,448 3076 and an and an and a 120 020121082 2018 20 14	CadmusCom0.20 20 258 1718 1814 17 -18 HindingLaw 33 41 7 812 514 +14	
			ToobAlph 77 8 ³ 8 9 ¹ 8 9 ¹ 8 -38
		Cal Micro 49 318 1412 1418 142 -18 HOU & Co 0.18 6115275 58 5412 5614 -1	- O - TransWhid 3 139 9 7% 7% -4
No. Image: Strategy interview		Cincles 30 121 2 ¹ 8 2 2 ¹ 8 +1 Healthcar 0.06 18 82 19 ³ 8 6 ³ 4 9 ³ 4 -1 Healthcar	
In the difference		CartonCan 0.82 20 28 474 4078 47 +5 Hechinger 0.16 1 3416 34 4212 212 -2	
		Cascade 0.36 15 100 137 1312 1376 + 8 Holdan 10 21 105 1854 1854 - 8	Opiecosy N 1.30 7 8 4212 4214 4212 Transcoline 0.96 19 179 2214 2112 22
	Stock Div. E 100s High Low Chem Cheng Subck Div. E 100s High Low Chem Chem Cheng Subck Div. E 100s High Low Chem Chem Chem Chem Chem Chem Chem Chem	Calgeon 9 221 912 914 914 -14 Hentet x 61.80 17 8837 2014 187 157 -14	UNDER 132 12 110 as all set The There are and and and
Autor during of state in the during o	the start of the s	Centucor 4517485 274 255 259 +4 Home Bent 0.06 11 53 247 247 247 -7	Cito Nanti B 0.52 18 7 3612 3812 3812 -12
Amount of a row of row of a row of row of row row of row of row of row of a row of a row	Abba had 0.05137 1107 9 77 94 +5 Crown C9 0.40 1 74 124 127 134 +1 HunasianA 6 101 5/ 5/2 6 -1 Parini 0.80 1 52 5/2 6 5/2 -1		
Amount of the definition of the def	Anderbi 0.06 3'1767' 10 ³ 8 16 10 ³ 8 + 7 (2000) U.30 16 24 00 ⁻ 7 20 ⁻ 8 ⁻ 7 4	Chandler 19 178 87g d55g 57g Humbingth 0.80 15 1321 34 234 234	
Amount of the origin over your competitors by having the framelal Times delivered to yoe how or the in the basiness in the continental St. on numero verde 167-621127 to more information. Image: Discussion of the basiness in	Ampai-AmA 93 65 4% 4% 4% 4% 4% 4% 4% 4% 4% 4% 4% 4% 4%	Charaish 0.00 311204 412 412 41 +3 HanchiToch 192227 48 4414 47 +13	Orbolech 0.99 11 882 18 123 125 +14 United St 0.40 12 20 23 222 2212
August International properties by harding the Financial Times delivered tory whore or office way. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times delivered tory. International properties by harding the Financial Times del	Ashrotech 12 105 43, 43, 43 13 December 15 89 194 107 194 194 19 194 195 157 - 5 S.W Corp x 222 7 18 403, 402 403, +3	minds in an and an and 3	
And we want at a single with a single wit	AutoToteA 1 410 12 12 13 14	Chempower 0.72 25 4 5 ¹ / ₈ 5 ¹ / ₂ 5 ⁵ / ₉ + ¹ / ₈	Denep 1 151 3/2 3/2 1/2 US Banco 1.24 18 5570 041 4 403 4012 + 4
When we is a first start in the dig is get in the dis get in the dig is get in the dig is get in the dig is	Home and a set of the	Canon cp 3010547 22-2 21-3 22-2 +-2	Ophicash 7 0.05 41 71 1174 1114 1114 3 US Robot 3015325 6574 80 61 +112
With bld d d d d d d d d d d d d d d d d d d	BSH Desen 0.50 8 4 2 ¹ / ₂ 2 ¹ / ₈ 2 ¹ / ₈ 2 ¹ / ₈ 4 Ecol BrA 4 0.22 20 33 6/6 6 ¹ / ₈ 9 ¹ / ₈ 9 ¹ / ₈ 10 math 4 0.22 70 33 6/6 6 ¹ / ₈ 9 ¹ / ₈ 10 10 10 10 10 10 10 10 10 10 10 10 10	Ciniza Cp 0.25 34 454 5812 573, 5814 -18 FR Sys 17 420 17 1814 17 +12	UNEYTAM 1.80 12 54 324 32 32-2 -4 10 10 10 10 10 10 10 01 0 13 01 0 1
The state of	Bidow T A-2 0.04 28 62 21 27 27 28 Epitope 35 203 15 ¹ 2 147 15 -12 TownaDatay 6 430 7 6 ³ 2 3 7 27 1	Circuite: 1212090 19 104 1942 +4 Instance 30 130 11 1042 11 -4	USI COMP 0120 14 1014 17-2 17-2 -4
When we can be the defined by the	Beant 131 10 25 23 25 Caller 070 18 10 205 28 25 Caller 205 20 20 20 20 20 20 20 20 20 20 20 20 20		Lital Tailow 0.50 22 22 903, 88 88
Image: 1 and 1 an	Burka Man 0.40 27 17 23-19 23-19		
Beam in the edge over your competitors by having the Financial Times delivered to your nome or office every working day. Hend delivery services are available for all subscribers, who work or five in the business of first states, the served are available for all subscribers, who work or five in the business of first states, the served are available for all subscribers, who work or five in the business of first states, the served are available for all subscribers, who work or five in the business of first states, the served are available for all subscribers, who work or five in the business of first states, the served are available for all subscribers, who work or five in the business of first states, the served are available for all subscribers, who work or five in the business of first states, the served are available for all subscribers, who work or five in the business of first states, the served are available for all subscribers, who work or five in the business of first states, the served are available for all subscribers, who work or five in the business of first states, the served are available for all subscribers, who work or five in the business of first states, the served are available for all subscribers, who work or five in the business of states, the served are available for all subscribers, who work or five in the business of states, the served are available for all subscribers, who work or five in the business of states, the served are available for all subscribers, who work or five in the business of states, the served are available for all subscribers, who work or five in the business of states, the served are available for all subscribers, states, the served are available for all subscribers, who work or five in the business of states, the served are available for all subscribers, who work or five in the business of states, the served are available for all subscribers, who work or five in the business of states, the served are available for all subscribers, the se	Bowman 0.55 10 79 223, 2212 223, 2212 223, 2212 223, 2212 224, 221 12 37 31 224, 20 -1 4 Ukafrondel 0.20 62 2 13, 13, 13, 13	CocaCola8 1.00 21 338 0424 403 4112 +32 inglestific 0.86 14 479 1832 15% 1912 +5	
During up or 3 m 3 m 3 m 3 m 3 m 4 m 4 m 4 m 4 m 4 m		Cogener Cp 15 1237 13 125 1234 38 Integriller 8 4108 81 71 71 -1	Pacificania 22 2232 7212 7012 7114 +12 Valmoons 0.40 16 17 3412 3414 3414 -18
Gain the edge over your competitors by having the Financial Times delivered for all subscribers who work or Rive In the business Image of the business Image busines the business Image of the bus	Cambres 0,00 18 47 31 % 31 % Gammi FOA x 0,76 18 824 3518 3412 36 +% Manual 12 814 914 914 Wacoma 9 9839 3518 3412 35 +%		
During with the state is at a first the state i	Chriffan (Li) 404 422 432 432 432 432 6 6 6 4 6 4 4 4 4 4 1 1 1 1 1 1 1 1 1 1		Payco Am 36 6 133, 133, 133, Vanathax 6 2963 223, 227, 23 -1,
A state B is it if it	CarpTich 105 30 1875 1878 1078 +18	Cometra 0.24 13 4146 223 205 32 +13 ktignt 0.40 9 2186 82 84 94 -1	Penn Trty 15 283 23 ¹ 2 23 23 -3 Woor 28 800 18 17 ³ 4 16 +14
$ \begin{array}{c} numeric non the set of th$	Computance 87 10 14, 14, 14, 14, 14, 14, 14, 14, 14, 14,	CancestASp 0.09111 8656 155 154 154 +38 IntericeA 0.25 18 363 16 174 10 +58	Partnet x 0.50 14 124 253, 25 253, +3, Viewtopic 50 2225 103 97 1018 +18
Image: Angle of the state			PERMICH 3 /1 52 16 18 16 16 16 16 7 1100 501 201 201 201
Have your FT hand delivered in Working day. Hand delivers services are available for all subscribers who work or five in the business delivers of Firenze, Genova, Milano, Roma (Centro Citta, Pariol), Eury and Torino. Please call intercontinental St. on numero worde 167-8211172 tor more information.			
Have your FT hand delivered in Image over your competitors by having the Financial Times delivered to your home or office every working day. Hand delivery services are available for all subscribers who work or five in the business of Firenze, Genova, Milano, Roma (Centro Citta; Parioli, Eur) and Torino. Please call intercontinental Sri. on numero verde 167-821172 for more information.		Comethere 7 1552 133 13 13 13 + 40 iniDairyOA 12 179 19140184 1918 + 4	
$ \begin{array}{c} \label{eq:harder} \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$			Petrolike 1.12 at 171 33 ¹ 4 32 33 ¹ 4 Weng Lab 35 3408 23 ¹ 6 22 ⁷ 6 22 ⁷ 6 14
Have your FT hand delivered in Have your FT hand delivered in Gain the edge over your competitors by having the Financial Times delivered to your home or office every working day. Hand delivery services are available for all subscribers who work or five in the business centres of Firenze, Genova, Milano, Roma (Centro Citta; Parioli, Eur) and Torino. Please call intercontinental St. on numero verde 167-821172 for more information. Financial Times. World Business Newspaper.			
$ \begin{array}{c} \text{Have your FT hand delivered in} \\ \hline \\ \text{Have your FT hand delivered in} \\ \hline \\ \text{Have your FT hand delivered in} \\ \hline \\ \text{Have your FT hand delivered in} \\ \hline \\ \text{Have your FT hand delivered in} \\ \hline \\ \text{Have your FT hand delivered in} \\ \hline \\ Have your competitors by having the Financial Times delivered to your home or office every working day. Hand delivery services are available for all subscribers who work or live in the business in the delivery services are available for all subscribers who work or live in the business in the delivery services are available for all subscribers who work or live in the business is the transformation. \\\hline \\ \hline \\ \hline$		Description and up and and make	the set of the
Have your FI hand delivers of have a value of the financial Times delivered to your home or office every working day. Hand delivery services are available for all subscribers who work or live in the business delivered to your home or office every home to to the sin the business of Firenze, Genova, Milano, Roma (Centro Citta, Parioli, Eur) and Torino. Please call intercontinental SrL on numero verde 167-8211.72 for more information.			Planeer Go 0.40 37 184 25 24 25 +58 Wausau PM 0.22 17 120 20 1912 1959 +18
$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c}$		Crancher 6 0.02 20 5851 21-2 20-5 21-2 +72 Cranchech 34 2948 85 8-3 8-4 -3 Jul Smack 17 69 11-5 11 11-3 +1-2	MENEN (112 21) 00 0/0*3 00*3 00*4 +1*3 Wintow Box 0.02 14 3/3 M52 5010 511
$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c}$			Di- 40 1151 17 151, 10 1, WEIDER 1/ 1/1/1 20-2 2/04 20-4 +-2
$ \begin{array}{c} c_{pign} & 3 1883 \ s_{14} \ s_{14} \ s_{15} \ s_$		Optempet 3 503 85 812 812 +14 Jones Int 14 384 117 1112 1114 +14	Powerk 57 596 20% 20% 20% Winnits 1,24 12 3456 67 63% 64% -2
Gain the edge over your competitors by having the Financial Times delivered to your home or office every working day. Hand delivery services are available for all subscribers who work or five in the business centres of Firenze, Genova, Milano, Roma (Centro Citta; Parioli, Eur) and Torino. Piease call intercontinental SrL on numero verde 167-821172 for more information.JuntJuntJuntJuntJuntMortands 0.427 ($\frac{1}{2}$, $\frac{3}{2}$, $\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$ Financial Times. World Business Newspaper.Junt		Alle Hand that the sale and and the sale and the	Pacatok 0.58 10 23 22 21 2 21 2 21 2 -4 Websham L 0.28 10 45 12 3 12 4 12 3 +1
working day. Hand delivery services are available for all subscribers who work or live in the business DSC Cn 68 228 13° 13° 13° 13° 13° 13° 13° 13° 13° 13°	the second se		
centres of Firenze, Genova, Milano, Roma (Centro Citta; Parioli, Eur) and Torigo. Picase call bir 800 013 0 10 942 942 942 42 55 min 0.05 24 255 11 164 11 +1 Phile 94 23 1488 162 155, 10 -2 Phile 94 -X - Y - Z - Intercontinental Srl. on numero verde 167-821172 for more information. Danson point 20 10 2 42 42 42 -1 Numbel 0.22 14 218 263 263 264 255 11 164, 11 +1 Phile 94 23 1488 162 155, 10 -2 -X - Y - Z - Financial Times. World Business Newspaper. Database 28 81 61 324, 924 242 -1 Numbel 0.22 14 218 264 251 25 25 Solution 0.02 24 0263 253 254 254 41 Numbel 0.22 14 218 265 253 254 254 41 Numbel 0.22 14 218 265 254 254 254 41 Numbel 0.22 14 218 265 254 254 254 41 Numbel 0.22 14 218 265 254 254 41 Numbel 0.22 14 218 264 25 11 Numbel 0.22 14 218 264 25 11 <th>Gain the edge over your competitors by having the Financial Times delivered to your nome or office every</th> <th>-D-</th> <th>Pres Lile 0.14 8 197 115 111 11 11 8 -1 8 WAT ADR x 0.23 20 225 374 37 37 -14</th>	Gain the edge over your competitors by having the Financial Times delivered to your nome or office every	-D-	Pres Lile 0.14 8 197 115 111 11 11 8 -1 8 WAT ADR x 0.23 20 225 374 37 37 -14
centres of Firenze, Genova, Milano, Roma (Centro Citta; Parioli, Eur) and Torigo. Picase call bir 800 013 0 10 942 942 942 42 55 min 0.05 24 255 11 164 11 +1 Phile 94 23 1488 162 155, 10 -2 Phile 94 -X - Y - Z - Intercontinental Srl. on numero verde 167-821172 for more information. Danson point 20 10 2 42 42 42 -1 Numbel 0.22 14 218 263 263 264 255 11 164, 11 +1 Phile 94 23 1488 162 155, 10 -2 -X - Y - Z - Financial Times. World Business Newspaper. Database 28 81 61 324, 924 242 -1 Numbel 0.22 14 218 264 251 25 25 Solution 0.02 24 0263 253 254 254 41 Numbel 0.22 14 218 265 253 254 254 41 Numbel 0.22 14 218 265 254 254 254 41 Numbel 0.22 14 218 265 254 254 254 41 Numbel 0.22 14 218 265 254 254 41 Numbel 0.22 14 218 264 25 11 Numbel 0.22 14 218 264 25 11 <th>working day. Hand delivery services are available for all subscribers who work or live in the business</th> <th>DSC Cm 65 9286 13/2 13/2 13/2 + 2 /</th> <th></th>	working day. Hand delivery services are available for all subscribers who work or live in the business	DSC Cm 65 9286 13/2 13/2 13/2 + 2 /	
Intercontinental Srl. on numero verde 167-821172 for more information. Entercontinental Srl. on nume	control of Firenze, Genova, Milano, Roma (Centro Citta; Parioli, Eur) and Torigo. Please call	Derteros 0.13 0 10 902 902 9022	Prime Pri 23 1468 18 ¹ 2 15 ¹ / ₈ 10 -1 ₂
Deb Shops x020 10 2 4/2 4/2 4/2 4/2 4/2 4/2 100 mbar 105 6997 40% 30% 20% 30% 20% 30% 30 65 2956 20% 20% 20% 30% 30 65 2956 20% 20% 20% 20% 30% 30	Intercontinental SrL on numero verde 167-821172 for more information.	Demacope 13 1137 17 16%, 16% -14 Kamen Cp 0.44 12 457 11% 11% 11%	
Desichamps 0.44 50 59 21-2 207g 207g 207g 237g 207g 23 52 Country 1138803 225g 21-3g 22-4, +1 Yallow 0.94 77200 13-2 12-5g 13-4g +12 Dasi Comp 2342442 82-3g 78 82-3g 42-3g 52-3g 23-1g 23-2g -2g Country 1138803 225g 21-3g 22-4, +1 Yallow 0.94 77200 13-2g 13-2g +12 York Resch 20 848 10-2g 3-5g 9-3g -2g -2g -2g -2g -2g -2g -2g -2g -2g -2	Financial Times World Business Newspaper.	Deb Shops x0.20-10 2 412 412 412 -18 Minimal 0.52 14 318 3634 36 36 -12	Contention 106 6997 4018 3812 293 +18 Xincon 63 2956 2014 195 1934 .14
Dail Comp 2342462 823 78 621 5 +43 100 100 - 10 100 20 10 10 10 10 10 10 10 10 10 10 10 10 10		Desichemps 0.44 50 59 21 2 20 2 20 3 20 3 160 A 0 222 1 3 3	Chanter 1138603 225 213 223 +1 View 0.04 7 7700 130 135 131 1
		Dal Comp 2342462 823 78 821 +43 Koman 101985 255 281 281 1	Quichaily 13 914 21 1 21 1 21 1 2 +1 Vork Rech 20 848 1012 85 914 -3
			and the second of the second s

FINANCIAL TIMES

. Joseff

An

Wednesday November 6 1996 :

THE EUROPEAN SERIES

Oct 29

1754.97 1758.14 1811.05 1812.44

Oct 30

higher at SFr963 in response

to news that the chief finan-

cial officer Mr Sergio Mar-

chionne would become chief

significant rebound in KLM

as the AEX index ended up

4.71 at 586.03. Traders

breathed a sigh of relief as

news of a planned restruct-

uring of the airline emerged

with second-quarter results

towards the top end of what

had been an alarmingly wide

ws of severe retrenchme

In the face of tough trading

conditions, surged hy almost

5 per cent. closing at Fl 43.80,

announced to plans to take a

half share in a hig Brazilan

retailer, had another strong

session, adding Fl 2.30 to

Ahold, which on Monday

KLM shares, hit lately by

forecast range.

up F11.90.

Fl 103.50.

AMSTERDAM registered 0

. Oct 31

1747,44 1906.78

executive.

1745.24

Bonds lift Dow at midsession

AMERICAS

36

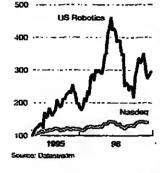
Soaring hond prices and hopes that the political landscape would remain largely unchanged sent US shares higher at midsession, writes Lisa Bransten in New York.

At 1 pm. Dow Jones Industrial Average was 43.98 stronger at 6,085.66, the Standard & Poor's 500 rose 7.11 at comparable period last year 713.84 and the American Stock Exchange composite climbed 1.58 st 573.34. Volume on the NYSE was 278m shares

Bond prices started the

US Robotics

Index and share price (rebased)



day higher as the dollar rose against both the yen and the D-Mark, sending the yield on the benchmark 30-year Treasury to its lowest level since early March.

Falling bond yields led to gains among interest-rate sensitive banks. Chase Manhattan Bank added \$23; to \$88%, Clticorp climbed \$2% to \$102, BankAmerica was \$2 stronger at \$93", and Bank of New York rose \$1's at \$33%.

Technology shares also contributsd to yesterday's rally as shares in the sector rehounded after dropping since the middle of last month.

By early afternoon, the Nasdaq composite, which is about 40 per cent technology sharcs, was up 10.26 at 1.230.74 and the Pacific Stock Exchange technology index C\$88.40.

Caracas drops 2.9%

3.285.55.

hy

CARACAS was sharply lower yesterday morning as investors reacted negatively to the strong gains huilt up in recent sessions.

hy 2.9 per cent at midsession. It stood at 5,743.11,

was 1.8 per cent stronger. on a traders' election bet. PARIS was huoved hy ral-The second most active share on the Nasdan was US lies at Renault and Carre-Robotics, which recovered four and another day of \$4% of the \$18% it had lost rumour-driven ectivity at UAP, The CAC-40 ended

since October 15 hringing the shares to \$63%. Late on Monday, US Robotics at 2.187.32 reported earnings of 71 cents Good news on sales for a share, nearly double what the company made in the and in line with analysts' expectations.

The largest companies on the Nasdaq were also sharply higher.

rose \$1 to \$47%

Intel edded \$2% at \$113%, sales in France last month. UAP gained FFT3.90 to Microsoft was \$3 stronger at \$141 end Clsco Systems FFr111.90 for a two-dsy added \$23 at \$63%. Meanwhile, fortunes were advance of more than 5 per cent. Rumours of a takeover mixed at volatile Internet hid for the company refused companies. Yahoo!, the to go away in spite of a Internet directory company,

denial from the rival insurlost \$1% at \$17% and Cyberance group Axa. cash, an Internet commerce Rhone-Poulenc, one of the company, shed \$1/3 at \$27%. strongest CAC 40 performers Netscape Communications. this year, rose FFr4.20 to FFr154.70 after an upheat the Internet software group, press Interview hy Its chair-Shares in MCI slipped \$134. man, Mr Jean-René Fourtou.

or 5 per cent, to \$29% amid Valeo, the car parts group. worries that British Telecommunications' huyout of the company could face considerable delays. MCI shares had jumped \$5% as news of

the takeover emerged TORONTO pushed further ASIA PACIFIC into record territory at midsession with banks, property and utilities all posting strong gains. The early advance on Wall Street helped underpin sentiment and the TSE-300 composite Index was up 46.60 at religious holiday. 5.655.86

There were slack performances during the morning energy and mining be found on the floor of the stocks, hut for the most part, exchange on a normal workit was another session of ing day, had flocked to trade steady huving. Bank shares in the parking lot outside came in for special attention the exchange. with Royal Bank of Canada Analysts commented that up C\$1.05 at C\$46,70 and the removal of the Bhutto Torouto-Dominion C\$1 better government, under fire for at C\$34.10.

alleged corruption and mis-Elsewhere among hluehandling the economy, could chips, Alcan gained 5 cents lift a cloud of uncertainty to C\$43.15 and Seagram put from the market. If the careon 70 cents to C\$49.80. Northtaker administration could ern Telecom gained C\$1.20 to initiate e fair accountability process it could help restore

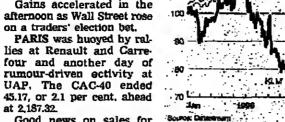
investor confidence in the langer term, they said. The market jumped 2.8 per cent on Monday on demand for hlue chins following a rise in synthetic fibre prices and some favourable corporate results. Based on kerh tations were growing for a a prices quoted yesterday, one

50 basis point decline in 28 analyst suggested the mar-The IBC index was trailing day Cetes. or T hills, later in ket could jump by as much y 2.9 per cent at midses the day. as 6-7 per cent in official BUENOS AIRES made con- trade today and tomorrow.

Political influences strong as bourses rally

KLM EUROPE

Share price & Index rebased Bonds rallied and equities followed on reports that the 120 Russian president Mr Boris **AEX** Index Yeltsin's heart operation had 110 been successful. Gains accelerated in the afternoon as Wall Street rose



Octoher gave both Carrefour and Renault a lift. The came off sharply on news supermarkets group ended that a 27 per cent stake in FFr120 better et FFr2,951, the company, held by Cerus, had changed hands. Dealers and the carmaker put on said this had softened take-FFr4.90 to FFr117.70 efter investors learned of a near over hopes. The stock ended off FFr8.20 et FFr302.60. 25 per cent surge in new car

Essilor rosa FFr18.50 to FFr411.50 on bid hopes plus strong sales statsment. Saint Gohain, a hig stakeholder in the opthalmic specialist, gained FFr19 at FFr703.

MILAN was pushed higher by soaring bond futures and demand for hlue chips which had heen neglected during the sale of a second tranche of shares in Eni, the energy giant. The Comit index rose 8.95 to 614.30.

Fiat recoursed 5.5 per cent.

after its receot slide, helped by the positive market debut of its New Holland subsidiary and further speculation about a restructuring of the car group's chemical operations. The shares umped L220 to L4,193 and its chemicals subsidiaries, both suspended limit up on Monday, also remained in the spotlight. Spia added L99 to L1,319 and Sorin Biomedica rose L82 to L5,236.

Shares in Cir. Mr Carlo De Benedetti's holding company, jumped 10 per cent in immediate response to news that it was selling its stake in Valeo. The shares subsequently turned hack, but still closed L19.2 higher et L742

FRANKFURT made a mixed start, hut it closed with the Dex index 37.43 higher at 2.716.16. Turnover rose from

DM7.1hn to DM8.5hn. BASF led chemicals higher, pntting on DM1.24, or 2.5 per cent, at DM50.50 after it said that Kohap of Sonth Korea would be taking over its ailing worldwide magnetic tape unit. Bayer, which reported a third-quarter rise of 8.3 per

cent in pre-tax profits, rose 54 pfg to DM57.94. Carmakers were infinenced hy good October US SFr382.

car sales figures. BMW, after

FTSE Actuaries Share Indices Nov 5 Open 10.30 11.00 12.00 13.00 14.00 15.00 Clean Hourly changes FTSE Buotrack100 1750.19 1750.58 1750.70 1752.26 1753.77 1755.84 1758.63 1758.99 FTSE Burdrack200 1809.02 1809.11 1809.23 1810.46 1812.27 1815.06 1816.38 1815.49 Nov 4 Nov 1 1747.59 1808.44 FISE Euroback 100 FISE Euroback 200 Bare wave 1000 (25/1090); Highlighy: 100 - 1758 C FISE Magnational (Josley 1998, All rights man 100 - 1758.98; 300 - 1\$17.02 Lowday; 100 - 1749.84 200 - 1808.12; † Parilal

a rise hy a quarter in US sales on the month, stood out in share price tsrms, DM28.50, or 3.2 per cent, higher st DM918.50, Porsche, with sales up by s third, saw Its preference shares up another DM20 to DM1.045 for a rise of 26.5 per cent over the past three months.

ZURICH, supported by foreign demand, the firmer dollar and Wall Street, saw the SMI index rise 35.6 to 3,784.8. Analysts said that a SFr34 jump to SFr1,029 in Swissair came as foreign selling pres-

sure eased. In retailing, Fust and Jelmoli were sharply higher In response to Monday's naws that the former Fust owner. Mr Walter Fust, had taken a majority stake in Jelmoli and would offer one Jelmoli bearer for two Fust bearers. Jelmoli rose SFr43 to SFr668 while Fust jumped SFT77 to

Alusnisse was SFr22 at F1217.60 ahead of third-

quarter rasults today. Results expectations also gave Unilever a lift. Up 80 cents at F1 261.20, the detergents to foods glant puts out third quarter on Friday. On the downside, Poly-Gram retreated Fl 2.20 to Synth

• 120 - 2

indus wins orc

pm US carrier

to 400 aircr.

F1 76.40. MADRID took the line that interest rates would remain favourable in Europe and this, with the day's gains in bonds, lifted utilitles and Telefonica as the general index put on 4.85 at 880.69 in turnover of Pta41.46bn.

Banks had a more moderete day, up a percentage point as Ms Susan Leadem of Goldman Sachs, recommending a market weight for the sector, noted their attempts to diversify out of an + extremely profitable domestic hanking environment with wide, but declining customer margins.

MOSCOW moved csutiously ahead as President Boris Yeltsin underwent heart surgery, although ana-lysts noted that a successful outcome to the operation had already been discounted. The Moscow Times Index finished 1.36 higher at 327,92

Written and edited by William Cochrane, Michael Morgan and Jeffrey Brown

Akzo Nobel was up FI 1.70 Karachi kerb traders greet Bhutto dismissal

> at 47.135 while SHENZHEN's B index fell 0.82 to 89.85 on speculative selling. DHAKA continued to punch into new high ground spite of what dealers scribed as visible signs of profit-taking. At the close, the all-share index was up a

further 1.7 per cent, extending its rally over the past four days' trading to more than 20 per cent. It stood at 3,648.74, up 61.06.

ents ahead of the gen-OD: eral election to be held on

BANGKOK closed modestly higher with the SET index up 6.04 at 919.01. Bro-kers said trading volume remained qulet as the market watched political devel-

change in flat volume with investors sidelined by the Melbourne Cup horse race. The All Ordinaries index ended up 4.1 at 2,361.6. Dealers said that trading came to a virtual halt during

the afternoon as the Melhourne Cup got underway, 'lt's a holiday in Victoria and the rest of the country tends to follow suit," said one broker.

At A\$433m, turnover was very light in spite of hopes for an interest rate cut today. News Corp hardened two cents to A\$7.23 as analysts speculated on possible synergies from the MCl/British Telecom merger.

Email, the white goods group, added 15 cents to A\$3.77 on strong results. BHP came off 14 cents to SYDNEY showed little A\$16.84.

TENDER NOTICE UK GOVERNMENT ECU TREASURY BILLS

For tender on 12 November 1996 The Bank of England announces the issue by Har Majesty's Treasury of ECU 1,000 million nominal of UK Government ECU Treasury Bills, for tender on a bid-yield soniu av. 12 Novambe r 1996. An additional EUU

Pakistan. dices rebased The dismissal of Pakistan's prime minister Ms Benazir 130 Bhutto and her government FT/S&P-A PE drove share prices sharply higher in kerh trading in 120 KARACHI, where the exchange was closed for s 110 Dealers said up to 500 investors, more than could

Karach S Jan. 1996 74

50 index rose 0.44 to 1.413.98. Traders noted mild concern among some domestic investors over the US elections, centering on the congressional race and implicstions for the US hudgetary deficit of a possible Demo cratic sweep of the House and Senate. However, the dominant issue for the mar

ket was the domestic political situation and the likely cahinet line-up of the LDP led minority government. There were anxieties, too, that the LDP would he unable to govern effectively

without a formal coalition

Already the Socialists, in

splie of a tacit agreement to

Shinpan, the largest pro-vider of credit card services, fell Y17 to Y688 and JACCS, another leading consumer credit company, slid Y12 to Y891.

Pharmsceuticals drew buying interest on a rise in chemical issues in New York. Shionogi gained Y11 to eda added Y18 to Y1.010.

in late trade as profit-taking pulled the market back from Monday's peak. The Hang Seng Index dropped 56.70 to 12.502.70. off an intradsy

Y888 in splte of reporting poor first-half earnings. Tak-Chemical Industries gained Y30 to Y2,030 and **Fujisawa** Pharmaceutical In Osaka, the OSE average lost 1.71 to 21,264.07 in vol-

ume of 21.3m shares. HONG KONG fell sharply

high of 12,616.37. Hongkong

FUTURES OPTIONS

& FOREX

WELCOME.

Union OAL **24 HRS**

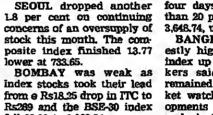
Telecom dropped 25 cents to technical rehound which HK\$13.35 as first-half results took the index 0.255 higher proved in line with expectations. SINGAPORE saw a flurry of hnying in the national steel company NatSteel after

5.55 at 2,070.23.

fell 29,88 to 3,062.84.

BERKELEY FUTURES LIMITE SE DOVER STREET, LONDON WIX SRE

FUTURES-OPTIONS-FOREX Tel.: 0171 329 3030 Fax: 0171 329 0545 Limited Internet : http://www.textor.com/markets/cat/



SHANGHAI's hard cur-November 17. rency B shares rose on S

index stocks took their lead from e Rs18.25 drop in ITC to Rs289 and the BSE-30 index

s number of brokers upgraded the stock. NatSteel rose 18 cents to S\$2.72 while the Straits Times Industrial index lost

down 169.75.

MEXICO CITY picked up from a dull start on bargain by the solid early showing hunting and as hopes grew on Wall Street. of a fall in domestic interest rates later in the day.

The benchmark IPC index cent on Monday, had added was 37.84, or 1.2 per cent, 4.61 to 586.87.

S Africa finishes mixed

Johannesburg pushed indus- to 1.740.1. trials lower, but left gold shares comfortably on the upside.

The overall index finished off 28.9 at 6.924 and industrials dipped 26.9 to 8.148.4 after a day of mostly futures-driven selling.

news for golds in the shape

et tool

mixed session in The golds Index gained 7.60

higher hy mldsession at

tinued steady progress

through the morning, helped

At midsession the Merval

index, which gained 1.5 per

Analysts ooted that expec-

South African Brewerles came off 75 cents to R120.75 and tscor, the steel pro-

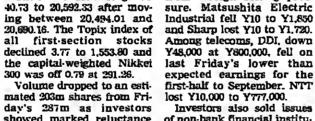
after the news that Harmony Gold had taken a 45 unchanged.

day's special parliamentary session to confirm the Japanese prime minister, writes Gwen Robinson. The Nikkei 225 average fell from foreign selling pres-40.73 to 20,592.33 after moving between 20,494.01 and 20,690.16. The Topix index of all first-section stocks declined 3.77 to 1,553.80 and the capital-weighted Nikkei 300 was off 0.79 at 291.26.

back in thinning volume on

the US elections and Thurs-

investor hesitation ahead of



showed marked reluctance of non-bank financial instituto commit themselves either tions following the collapse way. Declines led advances on Tuesday of the real estate by 572 to 458 with 206 company Sueno Kosan under a mountain of loans from In London, the ISE/Nikkei such institutions. Nippon

among other issues.

TOKYO returned from its back the LDP on key issue holiday weekend and feli in parliament, have threat **PeMarket-Eye** ened to block the forthcom ing hndget for fiscal 1997 over objections to expendi-FREEPHONE 0800 321 321 FAX 0171 398 1001 ture on US military forces FAST 64 KEIT SATELLITE TECHNOLOGY Electricals and telecommu-FOR COMPLETE REAL-TIME DATA OF THE US AND EUROPEAN EXCHANGES FOREX, FUTURES, OFTIONS, EQUITIES, NEWS nications issues suffered

SHARES

INDEX FINANCIAL

Quality Service

Low Rates

. .

MUIRPACE

FINANCIAL

KRIGHT-RIDDER'S FUTURES MARKET OATAKIT FROM \$570 A hell year al <u>Hyst Haffell |</u> Euf-of-Cay panie survice
 O Optimum (Eurolog Setherns hal. B Det Horn Service
 Hornes Service
 O Diff. Land Charles Setherns
 Diff. Control Setherns
 Diff. Control Setherns More information: Ma Bratter Void, 76 Freet Street, Lowise ELAY 1417, Tel: +44 (8) 171 842 408

WANT TO KNOW A SECRET ?

he 1.D.S. Seminer will show you how the markets REALLY work. The ann aking techniques of the legendary W.O. Gans can increase

£25

THE REALDOCK & CONTA

A personal service in Facures, Options & Currencies with direct access to exchange figu

- TAX FREE

0171 896 0011

0800-262-472 all

Certranoy: 0130-818100 Prance: 0800-908343 Switzerland: 046-05655 Pac: 0171-947-0471

Road

Signal

CITY INDEX

Petroleum Argus

BOOK YOUR FREE PLACE PHONE UTI SES SESS

OFFSHORE COMPANIES

Relisting in 1875 DCRA has 20 offices workt was and 750 ready-mode ecomparises awai Per 100 page FREE bolow boochure contact: RELE OF NAVE: D ANARTIN, CA 196 -44 NEX 181544 Piec 44 NEX 181647 LONDOR: RECHARD T COOK, KIC: The +44 771 385 1085 Piec 44 NEX 581 3812 HOND ROKE: AANT O DOROTE LLIM The +452 22287 Piec 44 NEX 251 1710 USA: REVM NERECRI, Bag Tet +1 714 854 2544 Piec +1 714 854 8962

James Maxwell Tri. 0171 202 (99)

Fac 0111 480 41/3

SPREAD BETTING ON OVER EIGHTY MARKETS

Petroleum Argus European Natural Gas Repor

Comprehensive daily raport covoring the UK and Europear

Beal-time quotes
 Forex data

W are expecte in ter-free formation and commentation spore ming." House 7 Manue - R.15par, We are able to oppose Streets making data formation status (Commentation)

Telence Page 109. For brechure and application from cal 0171 203 3667. "Selace or tar law.

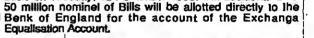
oas markets

CALL for a FREE TRIAL

+ Over 100,030 issues + News beadlines

+ For lats call 44+171 625 5101 ext. 3a

U.S. & lat'l data - As law as \$9/day1



2. The ECU 1,000 million of Bills to be issued by tender will be dated 14 November 1996 and will be in the Iollow maturities:

ECU 200 million for maturity on 12 December 1996. ECU 500 million for maturity on 13 February 1997. ECU 300 million for maturity on 15 May 1997.

3. All tenders must be made on the printed application forms evailable on raquest from the Bank of England. Completed application forms must be lodged, by hand, at Ihe Bank of England, Customar Settlement Services, Thraadneedle Street, London not latar than 10.30 a.m. London time, on Tuesday, 12 November 1996. Payment for Bills allotted will be due on Thursday, 14 November 1996.

4. Each tander at each yiald for each maturity must ba made on a separate application form for a minimum of ECU 500,000 nominal. Tenders above this minimum must be in j multiples of ECU 100,000 nominal.

5. Tenders must be made on a yield basis (calculated on the basis of the actual number of days to maturity and a year of 360 days) rounded to two decimal places. Each application form must state the maturity data of the Bills for which application is made, the yield hid and the amount tendered for.

6. Notification will be despatched on tha day of tha tender to applicants whose tenders have been accepted in whole or in part. For applicants who have requested credit of Bills In global form to thair account with ESO, Euroclear or CEDEL, Bills will be cradited in tha relevant systems againet peymant. For applicants who hava requested dafinitiva Bills, Bills will be evaluable for collection at Customer Settlement Services, Bank of England after 1.30 p.m. on Thursdey. 14 Novamber 1996 provided claered funds have been credited to the Bank of England's ECU Treasury Bills Account No. 59005516 with Lloyds Bank Pic, Bank Relations. SI Georga's House, PO Box 787, 6-8 Eastcheap, London EC3M 1LL. Definitive Bills will be available in amounts of ECU 10,000, ECU 50,000, ECU 100,000, ECU 500,000, ECU 1,000,000, ECU 5,000,000 and ECU 10,000,000 nominal.

7. Her Majesty's Treasury reserves the right to reject any or part of any tender.

8. The arrangements for the tendar are set out in more datail in tha Information Memorandum on the UK Government ECU Treasury Bill programme issued by tha Bank of England on behalf of Her Majesty's Treasury on 28 March 1986, end in supplamants to the Information Memorandum. All tenders will be subject to the provisions of the Information Memorandum (as supplamented) and to the provisions of this notice.

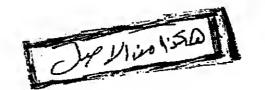
9. The ECU 50 million of Bills to be allotted directly to the Bank of England for the account of the Exchange Equalisation Account will be for meturity on 15 May 1997. Thasa Bills may be made aveilable through sale and repurchase transactions to the market makers listed in the information Memorandum (as supplemented) in order to facilitate settlement.

10. Copies of the information Mamorandum (and supplements to it) may be obtained at the Bank of England. UK Government ECU Treasury Bills are issued under the Treesury Bills Act 1877, the Netional Loens Act 1968 and tha Treasury Bills Regulations 1968 as amended. Bank of England

5 November 1996

Australia (78) . 212.74	0.6	191.51	153.02	167.36	179,78	0.8	4.25	211.47	1\$1.47	151.64	166.72	178.32	210.14	179.98	183.5
Austria (24)	0.6	163.55	130 68	142 83	142.84	04	1 97	160.69	163.60		142.45			158.35	172.4
Belaum (27)	0.5	198 83			169 78	0.3	3.93	215.71	195.93		173.22		221.99	193 77	194.4
Brazil (75)	-03	164.93	131.75		346.55	-0.3	1.17	183.86	166.47		144.95			123.97	136.8
Canada (116)	0.4	165.16	131.96	144.33	177,46	04	2.02	182.16	185.47	131,22	144 09	176.71	183.45	143.78	144.3
Denmark (501	0.4	296 38	236 81	255.00	260.30	0.2	1.77	327.95	296.95	235.48			338.30	276.89	281.7
Finland (24)216.67	03		155.84	170.45	206.48	0.2	2.43	216 01	195 58	155.10			229.99	171.73	228.0
Fiance (9.3	0.3	182 00	145.42	159.05	162.32	0.2	2.99	201 56	182.50		159.91		202.17	167.70	178.5
Germany (591	-0.2		129.25		142,13	-0.4	1,74	151.00	163.68		142.70		181.65	158.00	
Hong Kong (59)	0.3	421 34	336.65	368 20	464,64	0.3	3.29	466.60	122.47	335.03	367.87		470,59	354.67	377.8
Indonesia (27)	19			164.09	298.14	2.0	1.69	204.65	185 30		161.35		-	-	
lictand (16)	0.3	286.25	228 72	250.15	271.70	-0.2	3 31	316.93	236.95	227.56			317.98	246.63	
nav 1581	03	68,13	54.44	59.54	85.90	0.2	2.42	75.44	68.31	54.17	59.48	85.74	84.53	57.22	71,6
Lapan (450)	-02	124.55	99.52	108.64	99.52	0.0	0.77	138 60	125.49	99.52	109.27		164.68	137.62	140.0
Madayska (107)	0.1		415.33	454.25	661.59	0.0	1 17		522.35				587.74	425.77	448.0
Metado (27) 1106.52					0106.99	-02	1 30	1163.24				10130.12		791.99	901.6
Nelherland (191	-0.1	276 54	220.96	241.66	237.83	-04	3.08		278.31	220.70	242.34		314.85	252.71	254.3
New Centand (15)	-0.4	82.07	65.58	71.72	68.31	-04	4 02	95.51	82,85	65.71	72.15	68.58	94.35	75.94	81.4
Norway (35) 268.25	04	241.48	192.95	211 63	231.46	0.0	2.15	267.07	241.81		210.56	231.44	268.25	222.24	227.2
Philippines (221	1.2	169.76	135.64	148.35	246.97	1.2	0.64	186.37	168.74	133.82		244.13		-	
Smaapore (401 379.78	02	341,89	273.17	298.77	246.30	0.1	1.09	379.13		272,22			465.21	361.94	370.
South Africa (44)	-07	300.25	239.90	262.38	342 66	-0.4	2.24	335.92	304.14	241.19	264.84	344.18	437.78	314,20	362.7
5อวค(37)	0.3	168.21	134.40	147.00	180.45	0.2	3 31	186.28	168.66	133.75	145.87	180.14	190.09	147,48	147.8
Sweden (48),	-0.2	352.46	281.62	308.01	382.63	0.0	2.24	392.37	355.25	281.72	309.34	382.48	400.14	294.19	311.4
Switzerland 37	0.5	217.72	173.95	190.26	190.31	0.3	1.55	240.73	217.98	172.85	189.79	188.76	254.34	218.29	225 :
Thailand (45) 11373	-01	102 38	81.81	89.47	112.52	-0.2	3.05	113.B4	103.07	81.74	88.75		193.95		155.3
United Kingdom (213) 260 96	0.1	234.92	187.70	205.29	234.92	-0\$	+.02	260 75	236 09	187.22	205.58	236.09	261,17	222.29	223.1
ISA (624)	04	258.82	206.80	228 18	287.51	0.4	2.07	286.24	259.17	205.53	225.68		269.37	240.11	
Amencas (795)	0.4	237.03	190 79	207.14	221.27	0.4	2.06	262.17	237.38	188.25	206.70	220.33	784 65	218.79	
Europe (7191	0.1	201.52	161.01	176 10	190.94	-0.2	3.01		202.42			191.30			220.3
Verdic (13. ²)	0.0	300.72	240.27	262.75	385.32	0.1	2.19	334.01	302.41		263.33			193.02	194.
Pacilia Pasin (876) .154.62	-0.0		111.21	121.64	112.30	0.1	1.75	154,71				266.09			
Euro-Pacitic (15951	0.0	165.06	131.88	144.24	141.94	-0.1				111.08			177.01		150.1
North America (7401		253.26					2.15	183.28		131.60		142.01		188,34	168.1
	0.4		202.35	221.32	280.29	0.4	2.07	280.10					282.57	234.19	235.
Europe Ex. UK (506) 199 27	0.2	179.39	143.33	156 77	164.95	-00	2.42	199.99		142 86			201.22		174.
Pacific E.C. Japan (396)	03	267.76	213.94	233.99	257.23	0.4	2.89	296 39	268 36				299 79	243.59	252
Aond Ex. US (1910)	0.0	166.SS		145.89	147 15	0.0	2.14	185.38		133.11		147.21	191.55	169,39	189.8
Aolo E- UK (2221)	0.2	191 99	153.40	167 78	182.72	0.2	1.90	212.79	192.65	152,79	167.75	182.28	216.41	188.59	188.
World Ex. Japan (1954)	03	233.37	186-46	203.94	243 57	0.2	2 4 4	258.43	233.99	185.56	203.75	243 06	260.37		
The World Index (2434)	02	195.67	158 21	171.00	187.45	02	2.11	216 90	195.38			187.17			-

Common, FTSE International Landed, Gelenian, Sactra and Co. and Standard & Poor's 1996. All rights near Laters are a series and unavailable for mini edition. MARKET CLOSED 4/11/06. Jackin ark of The Financial Times Limited and Standard & Poor's.





Mary's Language R2 ____

S. - - ...

....

2

Ġ.1.

E::...

Million 'S Las

· . .

1.00

in a

14

== . · .

4

1000 1000 1000

Mante to spine to white

14

A. .

40

----÷.,

10

1

10.95

÷. 6

41.

ð

đ

يستغلج

ma."

alex m

Sector CPD.

-

1

τ.

151.5

131.1.2.

aCE .

DEL

DVES: --

₩Ω, -⁻⁻⁻

A.L.

T

1501-7

BTC

Refit · · ·

19125 . : ren.

Marrow .

tet-

t6.

9.

des:

ST. Depart and the same

Locate State willin . M

HORSE STA STA TA-PLA AT AN A

Som stin Lestino

ducer. slipped 5 cents to R329 in heavy volume. Lyndenhurg Exploration provided the hrightest news. jumping by R4.40 to R13.10 However, there was good

of a steadier bullion price. per cent stake.

FT/SEP ACTUARIES WORLD INDICES

The FT S&P Actualies World Indices are owned by FTSE International Limited, Goldman, Sachs & Co. and Standard & Poor's. The indices are completed by FTSE International and Standard & Poor's in conjunction with the Faculty of Actuanes and the institute of Actuaries. NatiWest Securities Ud, was a co-founder of the indices. NATIONAL AND REGIONAL MARKETS Equitos in parontheses show number of lines

US Day's Pound Local Local Gross US Pound Local Year Dollar Chunge Sterling Yen DM Currency % chg Div. Dollar Sterling Yen DM Currency St week ago Index ** Index Index Index Index on day Yield Index Index